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Pioneers Together—

the staunch builders of this great country—and Montgomery Ward & Co. who first supplied their needs by mail.

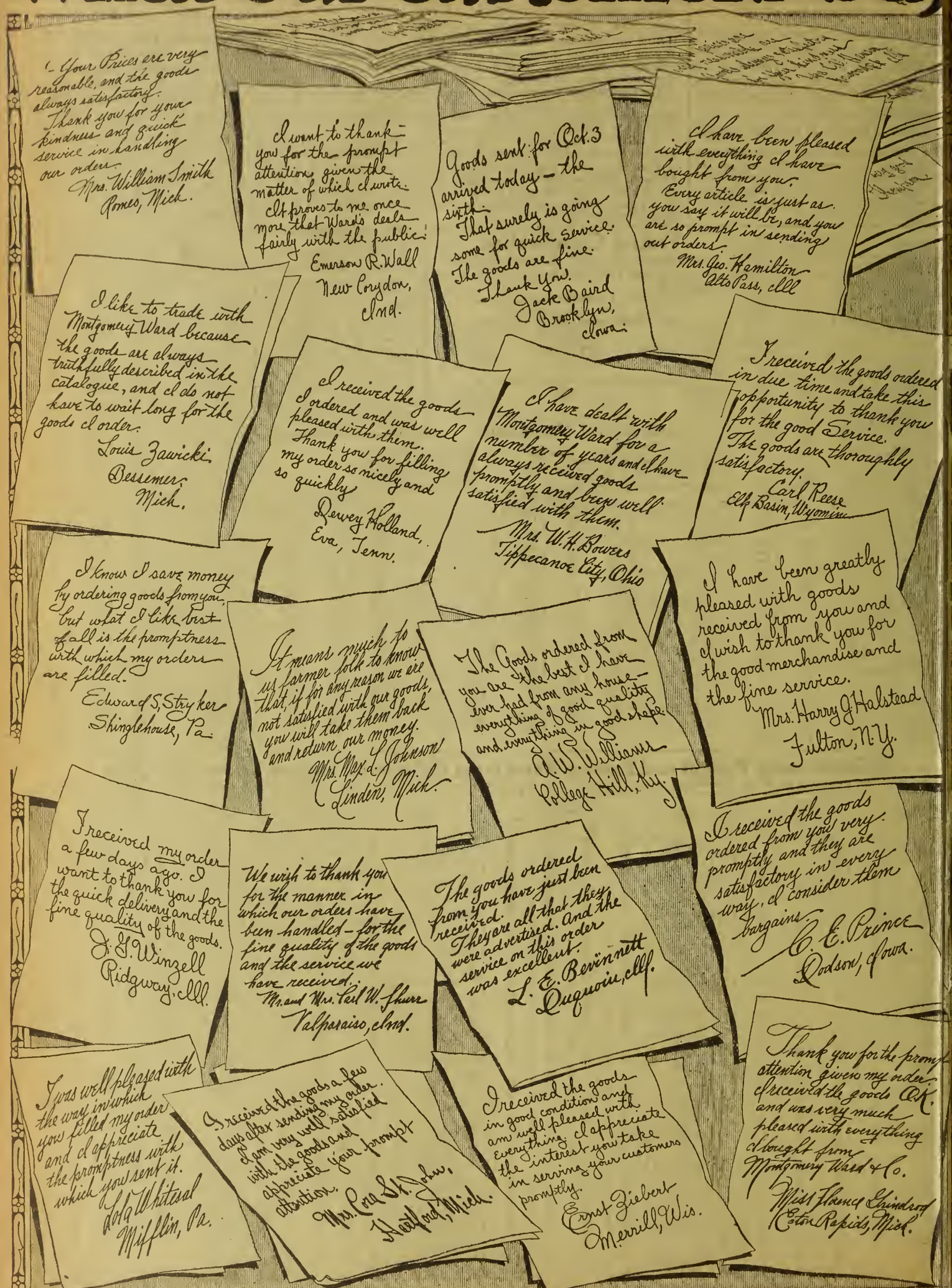
Fifty years of progress together, and today this great new-old institution of Montgomery Ward & Co. is filled with the same spirit of the Pioneer—always leading the way, always progressing.

We enter our second half-century of service by offering you in this, our Golden Jubilee Catalogue, the fruits of fifty years' experience in making low prices on goods of dependable quality always.

MONTGOMERY WARD & CO.

Catalogue No. 97 · Chicago · *Fall & Winter* 1922-23

What Our Customers Say



Your Prices are very reasonable, and the goods always satisfactory. Thank you for your kindness and quick service in handling our orders.
Mrs. William Smith
Romeo, Mich.

I want to thank you for the prompt attention given the matter of which I wrote. It proves to me once more that Ward's deals fairly with the public.
Emerson R. Wall
New Croydon, Ind.

Goods sent for Oct. 3 arrived today — the sixth. That surely is going some for quick service. The goods are fine. Thank You.
Jack Baird
Brooklyn, Iowa

I have been pleased with everything I have bought from you. Every article is just as you say it will be, and you are so prompt in sending out orders.
Mrs. Geo. Hamilton
Alts Pass, Ill.

I like to trade with Montgomery Ward because the goods are always truthfully described in the catalogue, and I do not have to wait long for the goods I order.
Louis Zawicki
Bessemer
Mich.

I received the goods I ordered and was well pleased with them. Thank you for filling my order so nicely and so quickly
Dewey Holland,
Eva, Tenn.

I have dealt with Montgomery Ward for a number of years and I have always received goods promptly and been well satisfied with them.
Mrs. W. H. Bowers
Tippecanoe City, Ohio

I received the goods in due time and take this opportunity to thank you for the good Service. The goods are thoroughly satisfactory.
Carl Reese
Elk Basin, Wyoming

I know I save money by ordering goods from you, but what I like best of all is the promptness with which my orders are filled.
Edward S. Stryker
Shinglehouse, Pa.

It means much to us farmer folk to know that, if for any reason we are not satisfied with our goods, you will take them back and return our money.
Mrs. Max L. Johnson
Linden, Mich.

The Goods ordered from you are the best I have ever had from any house — everything of good quality and everything in good shape.
A. W. Williams
College Hill, Ky.

I have been greatly pleased with goods received from you and I wish to thank you for the good merchandise and the fine service.
Mrs. Harry J. Halstead
Fulton, N. Y.

I received my order a few days ago. I want to thank you for the quick delivery and the fine quality of the goods.
J. J. Winzell
Ridgway, Ill.

We wish to thank you for the manner in which our orders have been handled — for the fine quality of the goods and the service we have received.
Mr. and Mrs. Earl W. Shurr
Valparaiso, Ind.

The goods ordered from you have just been received. They are all that they were advertised. And the service on this order was excellent.
L. E. Bevinnett
Duquoin, Ill.

I received the goods ordered from you very promptly and they are satisfactory in every way. I consider them bargains.
C. E. Prince
Dodson, Iowa.

I was well pleased with the way in which you filled my order and I appreciate the promptness with which you sent it.
Lola Whitesal
Mifflin, Pa.

I received the goods a few days after sending my order. I am very well satisfied with the goods and appreciate your prompt attention.
Mrs. Cora St. John.
Hartford, Mich.

I received the goods in good condition and am well pleased with everything. I appreciate the interest you take in serving your customers promptly.
Ernst Ziebert
Merrill, Wis.

Thank you for the prompt attention given my order. I received the goods O.K. and was very much pleased with everything I bought from Montgomery Ward & Co.
Miss Florence Chinderd
Eaton Rapids, Mich.

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THE list of departments on this page tells you quickly just where to begin your shopping.

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If you wish to find a particular article, turn to the blue pages immediately following. Look for the article by the name best known to you. For instance, fur coats are listed under "Coats" and also as "Fur Coats." Horse blankets are listed under "Blankets" and also as "Horse Blankets." You will have no trouble in finding the articles in which you are interested.

"How to Order" Instructions on Page 320

Gift Suggestions

Gifts For The Home

Player Pianos
Phonographs
Records
Music Cabinets
Lamps
Radio Sets
Rugs and Furniture
Easy Chairs
Clocks
China Dinner Sets
Post Card Projectors
Movie Projectors

Any article may be found easily by referring first to the lists on the following blue pages

Gifts Anyone Will Enjoy

Boxes of Candy
Writing Paper
Handkerchiefs
Gloves, Mittens
Silk or Wool Hose
Flash Lights
Books
Cameras
House Slippers
Bathrobes
Sweaters
Watches

For Men

Fur Caps, Gloves
Scarf and Cap Sets
Chamois Vests
Silk, Madras Shirts
Neckties, Scarfs
Silver Belt Buckles
Cuff Link Sets
Tie Clasps, Scarf Pins
Traveling Bags
Pocket Books, Bill Folds
Shaving Sets
Watch Chains, Fobs
Smoking Stands
Cigars, Tobacco
Cigar and Cigarette Holders
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Umbrellas
Pocket Knives
Auto Roles
Spot Lamps
Motometers
Collar Bags
Driving Gloves
Hunting Coats
Guns, Fishing Tackle

For Women

Hand Made Blouses
Silk Petticoats
Kimonos
Boudoir Caps
Dress Material
Neckwear
Fur Sets, Fur Coats
Earrings, Rings
Pearl Necklaces
Bar Pins, Brooches
Hair Ornaments
Jewel Cases
Work Baskets
Umbrellas
Traveling Bags
Vanity Cases
Ivory Toilet Sets
Perfumes
Cedar Chests
Silver Table Ware
Cut Glass Dishes
Oven Glassware
Kitchen Cabinets
Electric Appliances
Sewing Cabinets

For Boys and Girls

Music or Book Bags
Fountain Pens
Scarf and Cap Sets
Sweaters, Mackinaws
Dresses,
Cameras
Neckties
Hair Ribbons
Play Suits
Rubber Boots
Moccasins
Jewelry
Books, Games
Athletic Equipment
Skates
Skis, Snowshoes, Sleds
Autos, Wagons
Bicycles, Velocipedes
Junior Grand Pianos
Mechanical Toys
Dolls, and Doll Playthings
Drawing Sets
Blackboards

For Babies and Little Tots

Lockets
Carriage Robes
Crib Blankets
Coats, Capes, Mittens
Bootees, Moccasins
Dresses, Bonnets
Sacques, Kimonos
Sweater Sets
Comb and Brush Sets
Embroidered Bibs
Toilet Baskets
Silver Mugs and Spoons
Dress Pin Sets
Rings, Bracelets
Soft Balls, Rattles
Floating Toys
Play Yards, Swings
Cribs, Carriages
China Baby Sets
Horns, Balloons
Unbreakable Dolls
Linen Picture Books
Kindergarten Sets
Little Wagons
Building Blocks

We Celebrate Our Golden Jubilee Year by Perfecting Our Service to You

A YEAR AGO we talked over the celebration of our Golden Jubilee Year—of what we would do to mark the beginning of our second half century.

We decided that the most fitting celebration would be to devise a new method of serving you—our customers.

You are responsible for building this business. Your patronage, your faith in Montgomery Ward & Co., has built this business to its present magnitude. Our best celebration would be to announce an improvement in our service to you.

A year's hard work and study has been given to this subject. And today we announce the result—a new, perfected system of order filling that means—

Your Orders Shipped in Less than 48 Hours

Our new system has been in operation five months. During that time ninety-six orders out of every one hundred have been shipped to our customers in less than 48 hours.

We can therefore safely announce the success of our new system. We say to you: "Send your order to Montgomery Ward & Co. It will almost certainly be shipped in less than 48 hours after it reaches us."

Now the advantages of buying from Montgomery Ward & Co. are plain and certain. We offer you only dependable, serviceable goods; we offer you the lowest prices possible, quality considered, and we will ship your orders promptly, as practically every order received this season will be shipped in less than 48 hours.

Again we say to you—

The Oldest Mail Order House Is Today the Most Progressive

MONTGOMERY WARD & CO.

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Saves 15 to 25 Per Cent

"My order of lace curtains and underwear was filled promptly and accurately and the quality of the goods was far beyond my expectations. To duplicate this order here would have cost me from 15 to 25 per cent more than your price.

"We are more than pleased with the goods you furnish. Many thanks for your courtesy and good treatment."

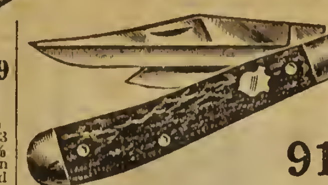
F. M. Trout, Columbus, Ohio.

Printed with Mr. Trout's Permission

Practically all of our knives have brass linings and nickel silver ends. This means that the linings and ends will not rust—highly desirable features in a pocketknife.

$1.09

Premium Stock Knife; 3 blades. Length, 3⅞ inches. Stag pattern handle; nickel silver shield and ends. Large 2⅞-inch clip blade; 2-inch spay blade. A handy punch awl blade for wood or leather. Blades are well tempered to hold their keen edge. Brass lining which will not rust.
46 C 5860 .... $1.09
46 C 5861—Same as above with lock punch 1.39
Postage, 3¢ extra



91¢

El Toreador style Jackknife; 2 blades. Length, 3⅞ inches. Stag pattern handle. Brass lining which will not rust. Nickel silver ends and shield ornament. Large polished saber clip blade and smaller pen blade. Blades carefully edged and tempered.
46 C 5890 .... 91¢
Postage, 3¢ extra

72¢

Two-blade Pocketknife. 3⅜ inches long. Stag pattern handle with brass lining which will not rust. Nickel silver ends and shield ornament. Has a large spear blade, 2⅝ inches long and handy awl blade for putting a clean hole in wood or leather. Good value in a serviceable knife.
46 C 5940 .... 72¢
Postage, 3¢ extra

96¢

A big bargain in a 3-blade Cattle Knife; 3⅝ inches long. A very substantial knife with stag pattern, handle. Nickel silver shield ornament and ends. Brass lining which will not rust. Large spear blade, 2⅝ inches long. Sheep's foot blade and pen blade.
46 C 5855 .... 96¢
Postage, 3¢ extra

Four-blade Congress style Pocketknife; length 3⅝ inches. Stag pattern handle. Brass lining which will not rust. Nickel silver shield ornament and ends. Large sheep's-foot blade, 2⅛ inches long; one smaller sheep's-foot blade; two pen blades.
46 C 5935 .... $1.32
Postage, 3¢ extra

83¢

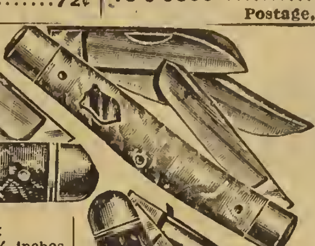
Easy Opener Style

A sturdy pocketknife. Notch in handle, making it easy to open. Has ring so can be worn on chain. Length, 3⅜ inches. Large blade, 2⅝ inches long. One pen blade. Brass lining which will not rust. Ebony handle.
46 C 5912 .... 83¢
Postage, 3¢ extra

$1.27

Smoked Pearl Effect

Three-blade Cattle Knife, 3½ inches long; smoked pearl effect celluloid handle. Brass lining which will not rust. Nickel silver ends and shield ornament. Large clip blade, 2⅝ inch. Spay blade. A punch awl blade for wood and leather.
46 C 5905 .... $1.27
Postage, 3¢ extra



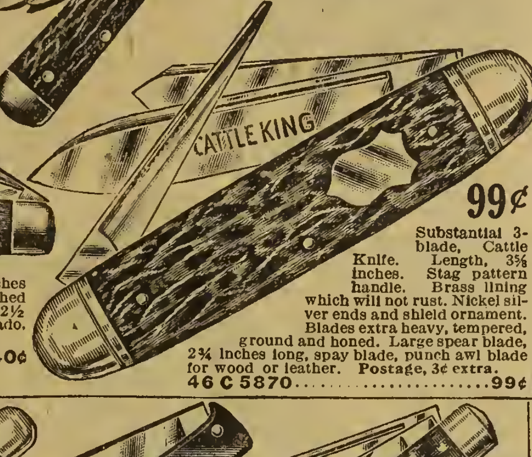
Three-blade Premium Stock Knife; length, 3⅞ inches. Handle finest mother-of-pearl. Nickel silver ends and shield ornament. Brass lining which will not rust. Blades are forged from finest English steel. Large clip blade, 3 inches long.
46 C 5875 .... $2.37
Postage, 3¢ extra

Four-blade Premium Stock Knife, 3¾ inches long. Stag pattern handle. Brass lining which will not rust. Nickel silver ends and shield ornament. Blades are strong, well tempered English steel. Large clip blade, 2½ inches long. Sheep's foot blade, spay blade and punch awl blade.
46 C 5880 .... $1.30
Postage, 3¢ extra

Two-blade Jackknife, 3⅜ inches long. Stag pattern handle. Nickel silver shield ornament and ends. Large spear blade, 2½ inches long. Small pen blade. Brass lining which will not rust. A strong, substantial knife for hard use.
46 C 5965 .... 60¢
Postage, 3¢ extra

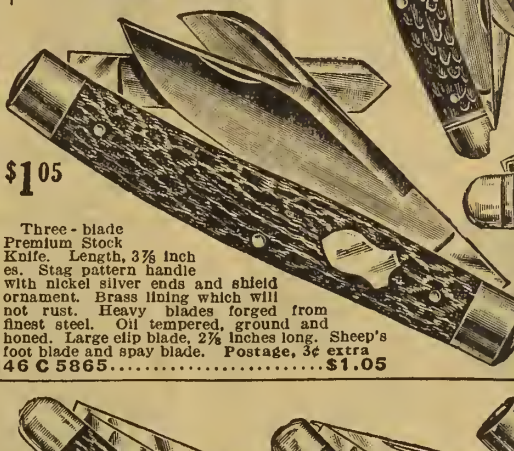
40¢

Two-blade Jackknife; 3¼ inches long. Redwood handle with polished ends. Has large spear blade, 2½ inches long and one small pen blade. Both blades are well tempered.
46 C 5975 .... 40¢
Postage, 3¢ extra



99¢

Substantial 3-blade, Cattle Knife. Length, 3⅝ inches. Stag pattern handle. Brass lining which will not rust. Nickel silver ends and shield ornament. Blades extra heavy, tempered, ground and honed. Large spear blade, 2¾ inches long, spay blade, punch awl blade for wood or leather. Postage, 3¢ extra.
46 C 5870 .... 99¢



$1.05

Three-blade Premium Stock Knife. Length, 3⅞ inches. Stag pattern handle with nickel silver ends and shield ornament. Brass lining which will not rust. Heavy blades forged from finest steel. Oil tempered, ground and honed. Large clip blade, 2⅞ inches long. Sheep's foot blade and spay blade. Postage, 3¢ extra
46 C 5865 .... $1.05

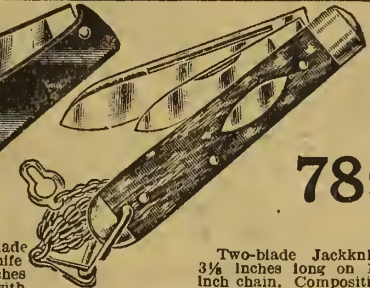
85¢

Heavy, 2-blade Jackknife. Length; 3½ inches. Stag pattern handle. Brass lining which will not rust. Nickel silver ends and shield ornament. Large spear blade, 2⅞ inches long. Smaller pen blade. A strong, substantial knife.
46 C 5915 .... 85¢
Postage, 3¢ extra

83¢

Two-blade easy opener style Jackknife. Length, 3⅝ inches. Stag pattern. handle. Brass lining which will not rust. Nickel silver ends and shield oranment. Strong and keen edged blades. Large spear blade, 2⅝ inches. Smaller pen blade.
46 C 5882 .... 83¢
Postage, 3¢ extra

One-blade Jackknife 3 inches long, with 14-inch chain. May be attached to clothing. Blade, 2⅜ inches long. Substantially made. Iron handle. Will please most any boy.
46 C 5950 .... 32¢
Postage, 3¢ extra



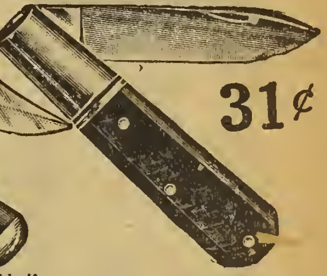
78¢

Two-blade Jackknife, 3⅛ inches long on 14-inch chain. Composition handle in smoked pearl effect. Brass lining which will not rust. Nickel silver ends and shield ornament. Large spear blade, 2¼ inches long. One smaller pen blade.
46 C 5995 .... 78¢
Postage, 3¢ extra

59¢

Big value in popular 2-blade Chain Knife. Stag pattern handle. Length of knife, 3⅜ inches; length of large blade, 2½ inches; 18-inch chain which may be attached to clothing.
46 C 5947 .... 59¢
Postage, 3¢ extra

Two-blade Jackknife. Length 3¾ in. Ebony handle. Brass lining which will not rust. Nickel silver ends and shield ornament. Large heavy clip blade, 2¾ inches long; smaller pen blade.
46 C 5920 .... 97¢
Postage, 3¢ extra

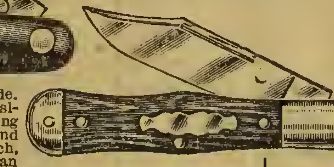


31¢

One-blade Jackknife; 3¼ inches long. Bone handle. Spear blade, 2½ inches long.
46 C 5955 .... 31¢
46 C 5956—Same knife but also has small pen blade .... 39¢
Postage, 3¢ extra

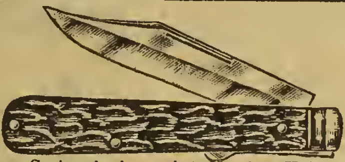
Tool Knives

One of best Tool Knives made. Length, 3½ inches. Tough composition ebony finish handle. Brass lining which will not rust. Compact and strong. Corkscrew, leather punch, screwdriver, bottle opener, can opener, and two keen-edged cutting blades. Ideal all around work knife.
46 C 6070 .... $1.83
Postage, 3¢ extra



Heavy ebony handle Clasp Knife. Length, closed, 5⅜ inches. Strong 4-inch saber clip blade of English steel. Excellent hunting knife. Good for any heavy work. Brass lining which will not rust.
46 C 6091 .... $1.21
Postage, 3¢ extra

Hunting Knives

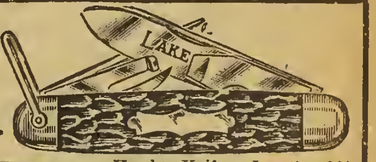


Spring back, pocket Hunting Knife. Length, 4⅝ inches. Stag pattern handle. 3⅝-inch clip blade. Heavy and strong. Locks fast when opened. Press on back to close. Postage, 3¢ extra
46 C 6075 .... $1.33

The Famous Marble Hunting Knife

Fine forged steel. Extra heavy blade. Handle bound with leather. Brass guard. Leather sheath.
46 C 6085—5-inch blade $2.45
46 C 6086—6-inch blade 2.65
46 C 6087—7-inch blade 2.90
46 C 6088—8-inch blade 3.10
Postage, 6¢ extra

Stag pattern handle Tool Knife. Length, 4¼ inches. Nickel silver ends. Brass lining which will not rust. Best drop forged steel. Contains cutting blade, pliers, harness punch awl, wire cutter, alligator wrench, hoof hook, screwdriver and bit. Cuts fence wire and baling wire.
46 C 6065 .... $1.62
Postage, 3¢ extra



Handy Knife. Length, 3¾ inches. Nickel silver ends. Spear blade, 2⅝ inches. Awl blade, screwdriver, bottle opener, blade and can opener. Brass lining which will not rust.
46 C 6060 .... $1.23
Postage, 3¢ extra

$1.87

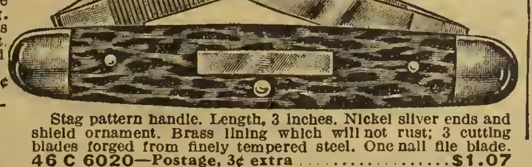
Pearl handle Penknife. Length, 2⅞ inches. Nickel silver ends and shield ornament. Brass lining which will not rust. Length of large blade, 1¾ inches.
46 C 6005 .... $1.87
Postage, 3¢ extra

75¢

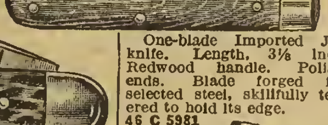
Stag handle Pocketknife. Length, 3 inches. Brass lining which will not rust. Nickel silver ends and shield ornament. Two sharp steel blades.
46 C 6050 .... 75¢
Postage, 3¢ extra

Penknives

Stag pattern handle. Length, 3 inches. Large blade 2⅜ inches long. One pen blade. Brass lining which will not rust. Nickel silver ends and shield ornament.
46 C 6032 .... 91¢
Postage, 3¢ extra



Stag pattern handle. Length, 3 inches. Nickel silver ends and shield ornament. Brass lining which will not rust; 3 cutting blades forged from finely tempered steel. One nail file blade.
46 C 6020—Postage, 3¢ extra $1.07



One-blade Imported Jackknife. Length, 3⅛ inches Redwood handle. Polished ends. Blade forged from selected steel, skillfully tempered to hold its edge.
46 C 5981 .... 25¢
Postage, 2¢ extra

Post. 3¢ ex.

89¢

Extra flat Pocket knife. Length, 3 inches. Composition smoked pearl effect handle. Nickel silver ends; 2 blades. Large blade, 2 inches. Brass lining which will not rust.
46 C 6030 .... 89¢

Stag pattern handle. Length, 2¾ inches. Large blade, 1⅝ inch. Brass lined. Nickel silver ends.
46 C 6046 .... 81¢
Postage, 3¢ extra

Pearl handle. Length. 3¼ inches. Brass lining which will not rust. Nickel silver ends and shield. Large blade, 2-inch.
46 C 6025 .... $1.46

87¢

Two-blade, 3¼-inch Penknife. Composition handles, golden tortoise shell effect. Nickel silver ends and shield ornament. Brass lining which will not rust. Blades fine steel, length of large blade, 2⅝ inches.
46 C 6040 .... 87¢
Postage, 3¢ extra

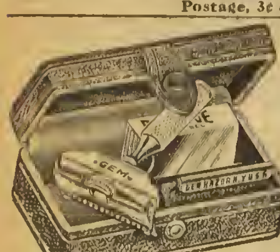
Refer to the Index, Pages 322 to 332

Shaving Needs

Auto-Strop Safety Razors

Widely known Auto-Strop Safety Razor. Stropping device built right into frame. Specially prepared leather strop. More comfort each shave; more shaves each blade. Heavily silver plated. Can be adjusted for light or close shave. Complete with 12 Auto-Strop Blades, in leather covered case.

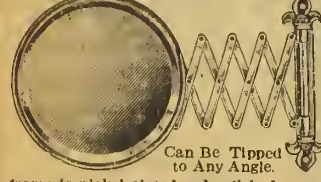
46 C 5175—Complete Set (Postage, 6¢ extra) $4.25
46 C 5179—The New Model Auto-Strop which sells elsewhere for $3.00. Heavily silver plated. Complete outfit with Strop and 6 Auto-Strop Blades in neat case (Postage, 6¢ extra) $2.65
46 C 5176—Package of 5 Auto-Strop Blades........ .43
Postage, 2¢ extra
46 C 5698—Strop only for Auto-Strop .... .45
Postage, 3¢ extra



The New Gem Deluxe Outfits

These high quality outfits were made to sell for much more. Heavily nickel plated, well known Gem Razor with 5 Gem Damaskeene Blades in your choice of the following cases:

46 C 5169 — Outfit in nickel-plated, velvet lined case.............. 91¢
46 C 5168 — Outfit in piano finish art wood case, ... 87¢
46 C 5171 — Outfit compactly arranged in flat, nickel plated case; velvet and satin lined. Smaller than a cigarette case.............. 91¢
Postage, 5¢ extra
46 C 5172—Pkg. 7 Gem Damaskeene Blades. Postage, 2¢ 44¢
46 C 5215—Sharpener for Gem Blades. Pictured and described on this page. (Postage, 5¢ extra)............ $1.10

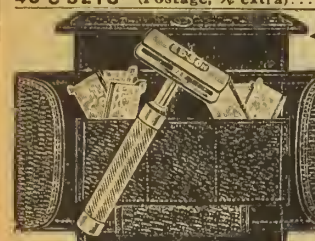


Shaving Mirror

You will appreciate the convenience of this splendid Mirror for shaving and many other uses where an adjustable Mirror is needed. Extends to 24 inches and swings in any direction. The mirror is fine, French bevel plate glass. Diameter 8 inches. The frame is nickel plated and polished.

Can Be Tipped to Any Angle.

46 C 5218—(Postage, 9¢ extra)............... $2.69



Edson Safety Razor

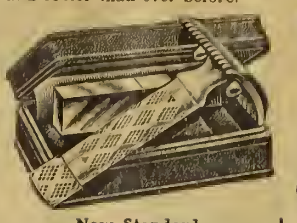
Holds the blade at just the right angle to shave any beard closely and smoothly. Outfit consists of a heavily plated razor which cannot rust, and 5 keen edged hair-tested Edson blades, all in a compact, leather covered case.
Postage, 4¢ extra
46 C 5200 .... 63¢

Edson Blades
46 C 5201—Package of 10 blades. Each blade carefully tempered and honed to hold sharp edge....... 40¢
Postage, 2¢ extra

These Sharpeners Add Comfort To Your Shaves

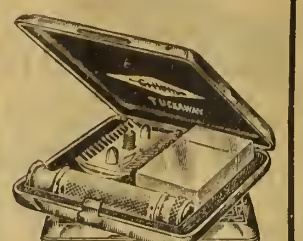
The New Improved Gillette Razor

Uses the same fine Gillette Blades which you have known for years, but with the New Improved Gillette Razor your blades will give you better shaves, more comfort and more shaves each blade. Shave once over with the New Gillette. You will find your face smoother and cooler than ever before.



New Standard

New Improved Gillette Razor; triple silver plated. Metal blade box with 12 double edged Gillette Blades. Genuine leather covered case, velvet lined
46 C 5183—
Complete Set $4.25
Postage, 6¢ extra

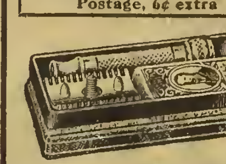


Tuckaway

New Improved Gillette Razor; triple silver plated. Metal box for blades. Small, compact triple silver plated case; 12 double-edged Gillette Blades. Complete Set.
46 C 5182.... .... $4.50
Postage, 6¢ extra

Gillette Blades

Package of six.
46 C 5195—Package.. 42¢
Postage, 2¢ extra
Automatic Stropper for Gillette Blades. Pictured and fully described on this page.
46 C 5230........ $1.65
Postage, 6¢ extra



Gillette Brownie

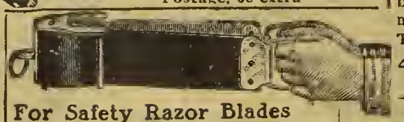
Nickel - plated, original model Gillette Razor with 3 double-edged Gillette Blades. In artificial leather-covered metal case.
46 C 5184—Complete..... 85¢
Postage, 5¢ extra

Gillette Pioneer

Silver - plated original model Gillette Razor with 6 double-edged Gillette Blades. Artificial leather-covered case with two blade boxes to match.
46 C 5187—Complete.. $2.10
Postage, 5¢ extra

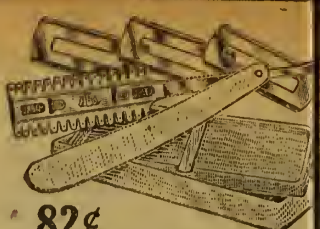
Automatic Safety Razor Blade Sharpener

For double-edged safety blades. The blade-holder turns the blade so that both sides are automatically stropped with a diagonal stroke. Strong, compact and nicely finished.
46 C 5230 — For Gillette Blades..................... $1.65
46 C 5231 — For Durham-Duplex Blades............... 1.95
46 C 5232—For Ever-Ready, Gem, Star and other wafer blades..................... 1.65
Postage, 6¢ extra



For Safety Razor Blades

Puts a keen edge on any safety razor blade. Leather strop, width 2 inches; red, self-honing sharpening side, and black finishing strop. Width, 2½ inches. Length, 17¾ inches.
46 C 5225................ $1.05
Postage, 5¢ extra



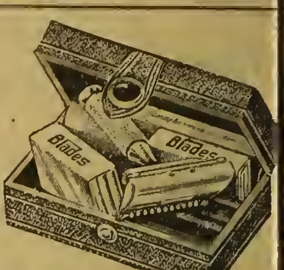
Durham-Duplex Safety Razor

Safety Razor and 3 blades. Gives the long, diagonal stroke of the old-fashioned razor, combined with the security of a safety razor.

46 C 5208 —
Complete Set... 82¢
Postage, 6¢ extra

82¢

46 C 5211—Durham Duplex Blades. Per package of 5.. 45
Postage, 2¢ extra
46 C 5225 — Automatic Stropper for Durham Duplex Blades pictured and described on this page. Pays for itself over and over again by making your blades shave better and last longer. $1.05
Postage, 5¢ extra



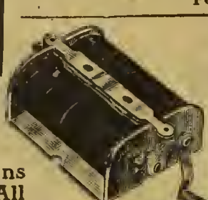
Ever - Ready Safety Razor

Standard Ever-Ready Safety Razor Outfit. Razor and 6 Ever-Ready Radio Blades in velvet-lined, solidly made case. Each blade is individually packed to protect its keen edge.
46 C 5160 —
Complete set....... 87¢
Postage, 5¢ extra
46 C 5162 — Extra Ever - Ready Radio Blades. Package of six............... 36¢
Postage, 2¢ extra
46 C 5215 — Sharpener for Ever-Ready Blades. Pictured and described on this page....................... $1.10
Postage, 5¢ extra

Lakeside Safety Razor Blades

Keen-edged blades, made from high grade crucible steel. Tempered to give a uniformly keen, smooth edge. Will shave the stiffest beard.

Fits Gem, Ever-Ready, King, Superior, Yankee, Cru-Steel, Clark, Wiss and Clauss Safety Razors.
46 C 5140—Package of 12 blades................... .45
Postage, 2¢ extra



$1.10

Sharpens Them All

Sharpens all blades except "Universal" and old style "Star." Two spiral leather rollers give the blade a diagonal stroke. Strongly made. Metal parts nickel plated. Three blade holders.
46 C 5215.......... $1.10
Postage, 5¢ extra

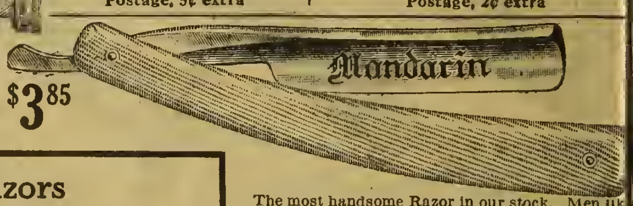
Genuine Auto-Strop

New model. Complete Auto-Strop service at a very low price. Nickel plated razor. Specially prepared strop. Three blades. In strong metal case.
46 C 5174—Complete Outfit..... 92
Postage, 5¢ extra
46 C 5176—Auto-Strop blades. Package of 5.................... 43
Postage, 2¢ extra

$2.45

We guarantee safe delivery, as well as the merchandise itself

A good, smooth-shaving Razor which gives satisfactory service for any beard. A very good value. Blade: ⅝-inch wide. End is celluloid-covered in reproduction of smoked pearl. Grinding: Full hollow. Handle: Celluloid reproduction of smoked pearl.
46 C 5430 .... $2.45
Postage, 4¢ extra

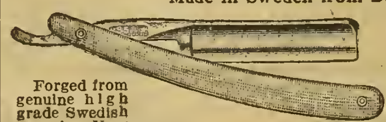


$3.85

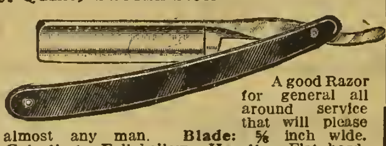
The most handsome Razor in our stock. Men like it not only for its beauty, but for its superb shaving qualities. Shaves any beard with comfort. Blade: ⅝-inch wide, forged from Wardlow's selected English steel and beautifully beveled. Mirror polished. Grinding: Full hollow. Hand-honed and hair tested. Handle: Grained celluloid in reproduction of ivory.
46 C 5412......................... $3.85
Postage, 4¢ extra

High Quality Swedish Razors

Made in Sweden from Best Quality Swedish Steel



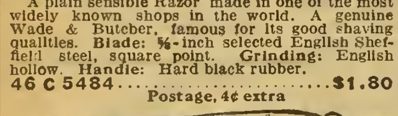
Forged from genuine high grade Swedish steel. Very suitable for barbers as well as for home use. Blade: ⅝-inch wide. Grinding: Full hollow. Handle: Grained celluloid reproduction of ivory.
46 C 5402.................... $2.25
Postage, 4¢ extra



A good Razor for general all around service that will please almost any man. Blade: ⅝ inch wide. Grinding: Full hollow. Handle: Flat, hard, black rubber.
46 C 5406...................... $1.85
Postage, 4¢ extra

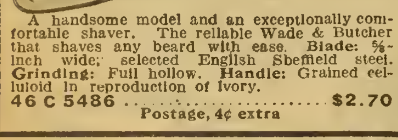
Wade & Butcher

The Genuine Wade & Butcher English Sheffield Razors



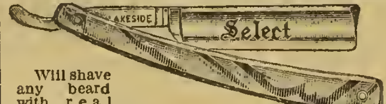
$1.80

A plain sensible Razor made in one of the most widely known shops in the world. A genuine Wade & Butcher, famous for its good shaving qualities. Blade: ⅝-inch selected English Sheffield steel, square point. Grinding: English hollow. Handle: Hard black rubber.
46 C 5484........................ $1.80
Postage, 4¢ extra



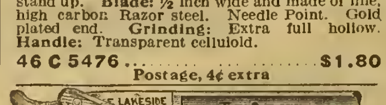
$2.70

A handsome model and an exceptionally comfortable shaver. The reliable Wade & Butcher that shaves any beard with ease. Blade: ⅝-inch wide; selected English Sheffield steel. Grinding: Full hollow. Handle: Grained celluloid in reproduction of ivory.
46 C 5486 .... $2.70
Postage, 4¢ extra

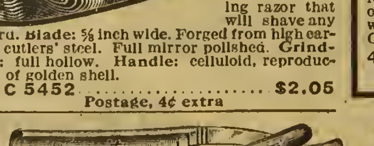


Will shave any beard with real barber-shop comfort. Blade: ⅝ inch wide, forged from high carbon cutler's steel. Grinding: Full hollow. Handle: Transparent celluloid in reproduction of polished horn.
46 C 5436 .... $1.70
Postage, 4¢ extra

Duplicate of razor made for the United States Army and Navy. Selected for its fine shaving qualities and sturdy durability. Edge stiff enough to shave toughest beard with comfort. Blade: ¾ inch wide, forged from Wardlow's English razor steel. Grinding: ¾ hollow. Handle: Oval, black, hard rubber.
46 C 5400......................... $1.20
Postage, 4¢ extra



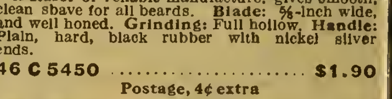
A real barbers' blade, tempered to stand up. Blade: ½ inch wide and made of fine, high carbon Razor steel. Needle Point. Gold plated end. Grinding: Extra full hollow. Handle: Transparent celluloid.
46 C 5476...................... $1.80
Postage, 4¢ extra



A clean shaving razor that will shave any beard. Blade: ⅝ inch wide. Forged from high carbon cutlers' steel. Full mirror polished. Grinding: full hollow. Handle: celluloid, reproduction of golden shell.
46 C 5452...................... $2.05
Postage, 4¢ extra

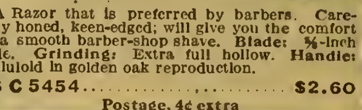
Popular "Genco"

The widely known American-made razors of the Geneva Cutlery Company



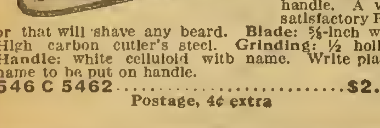
$1.90

A Razor of reliable manufacture; gives smooth, clean shave for all beards. Blade: ⅝-inch wide, and well honed. Grinding: Full hollow. Handle: Plain, hard, black rubber with nickel silver ends.
46 C 5450 .... $1.90
Postage, 4¢ extra

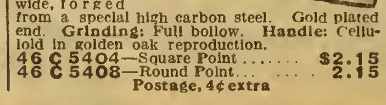


$2.60

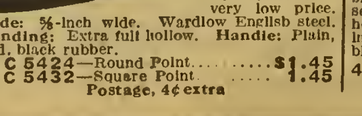
A Razor that is preferred by barbers. Carefully honed, keen-edged; will give you the comfort of a smooth barber-shop shave. Blade: ⅝-inch wide. Grinding: Extra full hollow. Handle: Celluloid in golden oak reproduction.
46 C 5454........................ $2.60
Postage, 4¢ extra



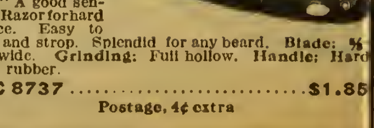
Your name in gold letters on handle. A very satisfactory Razor that will shave any beard. Blade: ⅝-inch wide. High carbon cutler's steel. Grinding: ½ hollow. Handle: white celluloid with name. Write plainly name to be put on handle.
546 C 5462........................ $2.35
Postage, 4¢ extra



A Razor for any beard. Blade: ⅝-inch wide, forged from a special high carbon steel. Gold plated end. Grinding: Full hollow. Handle: Celluloid in golden oak reproduction.
46 C 5404—Square Point $2.15
46 C 5408—Round Point...... 2.15
Postage, 4¢ extra



A good serviceable Razor at a very low price. Blade: ⅝-inch wide. Wardlow English steel. Grinding: Extra full hollow. Handle: Plain, hard, black rubber.
46 C 5424—Round Point......... $1.45
46 C 5432—Square Point 1.45
Postage, 4¢ extra



The "Royal Star" A good sensible Razor for hard service. Easy to hone and strop. Splendid for any beard. Blade: ⅝ inch wide. Grinding: Full hollow. Handle: Hard black rubber.
46 C 8737 .... $1.85
Postage, 4¢ extra

Please lend this catalogue to your neighbors

Hair Clippers—Barbers' Shears

Also Strops and Hones

For Professional and Home Use

Dependable Clippers at a Bargain Price

A splondid Clipper at a low price. Full nickel plated. Smooth and easy in action. Cuts hair to ⅛ inch.

46 C 5625.....$1.07
Postage, 6¢ extra

46 C 5626—Extra springs for 46 C 5625 Clipper. Each........................9¢
Postage, 1¢ extra

$1.07

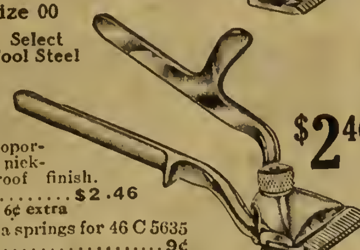
Nèck Shaver Size 00

Select Tool Steel

Cuts almost as closo as a razor. Blades made from select tool steel tompered to givo a very durable cutting edgo. Well proportioned throughout; nickel plated. Rust-proof finish.

46 C 5635..............$2.46
Postage, 6¢ extra

46 C 5636—Extra springs for 46 C 5635 Clipper. Each........................9¢
Postage, 1¢ extra



$2.46

Genuine Brown and Sharpe

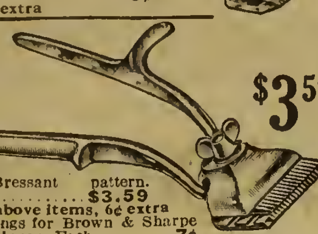
46 C 5645—Size 00. Improved pattern. Cuts almost as closely as shaving......$3.59

46 C 5646 Size 0. Bressant pattern. Cuts to 1/32 inch..$3.59

46 C 5647—Size 1. Bressant pattern. Cuts to ⅛ inch......................$3.59

Postage, on each of above items, 6¢ extra

46 C 5648—Extra springs for Brown & Sharpe Clippers. State size of clipper. Each..........7¢
Postage, 1¢ extra

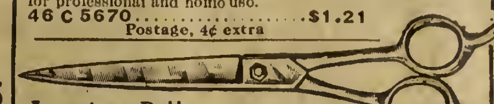


$3.59

French Pattern

Barbers' Shears. Strictly hand forged. Gun metal finish. Length, 7½ inches. Cuts easily and smoothly. Hold their edgo well. Regulation barbors' pattern and quality. Will give satisfaction both for professional and homo uso.

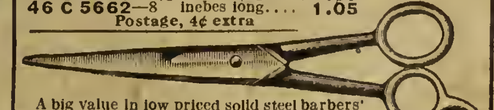
46 C 5670....................$1.21
Postage, 4¢ extra



American Pattern

Lakeside Laid-Steel Barber Shears. Will cut clean and hold keen edge. Blades well tempered. **Full Nickel Plated**

46 C 5660—7 inches long....$ .90
46 C 5661—7½ inches long...... .97
46 C 5662—8 inebes long.... 1.05
Postage, 4¢ extra



A big value in low priced solid steel barbers' shears. Length, 7½ inches. Full nickel plated finish. Will give very satisfactory service.

46 C 5673 ....75¢
Postage, 4¢ extra

Four-sided Combination Strop and Hone of excellent quality. Houe on one side for dull razors and three specially prepared leatber sides for sharpening and finishing. Screw tension. Lengtb, 14¼ inches.

46 C 5731........Postage, 6¢ extra........$1.95

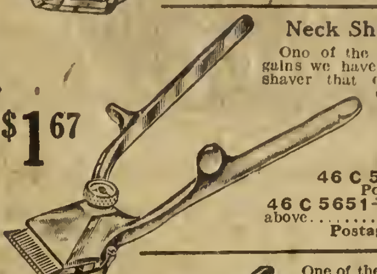
$2.21

RollerBearingClippers

Very strong smooth-working Clipper. Body is heavily nickel plated and polished. Cuts hair to leave it ⅛ inch long. Will hold its cutting edge for years because of the fine tempered blades.

46 C 5630
...... $2.21
Postage, 6¢ extra

46 C 5631—Extra springs to fit the above clipper. Each.............9¢
Postage, 1¢ extra



$1.67

Neck Shaver—Size 00

Ono of the biggest clipper bargains we have ever offered Neck shaver that cuts hair nearly as close as a razor. Carefully made with well tempered blades. Smooth - working. Nickel plated, rust-proof finish.

46 C 5650......$1.67
Postage, 6¢ extra

46 C 5651—Extra springs for above.........................9¢
Postage, 1¢ extra

$2.61

One of the most popular model Clippers made. Fine quality, built to give long service. Heavily nickel plated frame and plates. Hard tempered tool-steel blades. Smootb working.

46 C 5638 - Cuts hair almost as closely as a razor.
.........$2.95

46 C 5640 — Leaves hair 1/16 inch long...............$2.78

46 C 5641—Leaves hair ⅛ inch long............................$2.61

Postage, on each of above items, 6¢ extra

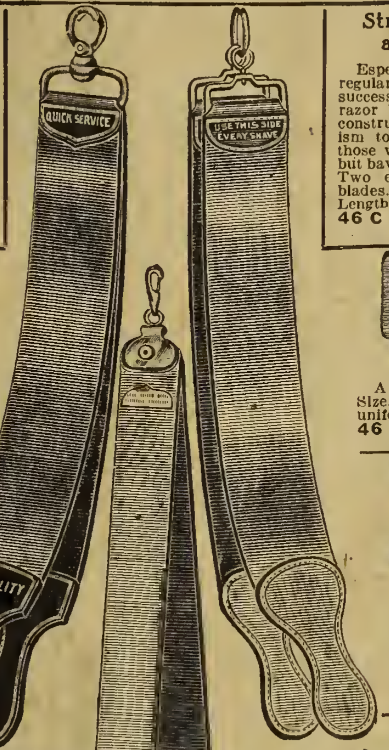
46 C 5642—Extra springs for above clippers. Each...........................9¢
Postage, 1¢ extra

$1.65

Stropper with the True Diagonal Stroke

Strops regular razors and any safety razor blade, to a keen, velvet edge. Gives the diagonal "heel to toe" stroke tbat assures a perfect shaving edge. The diagonal stroke is obtained by setting blade holder at angle to strop. Far simpler and stronger than cumbersome mechanisms often used. Metal parts nickel plated. Strop is oiled leather with honing surface for very dull blades and a fine finishing side. All "broken in," ready for use. Extra holder for safety razor blades. Width of strop, 2¾ inches. Length, 20 incbes.

46 C 5735...$1.65
Postage, 6¢ extra



91¢

Stropper for Straight and Safety Razors

Especially designed to sbarpen regular style razors but equaliv successful with any standard safety razor blade. Runs easily; simply constructed. No complicated mechanism to get out of order. A boon to those who prefer the old style razors but bave difficulty in stropping them. Two extra holders for safety razor blades. Widtb of strop, 2⅞ inches. Lengtb, 18½ inches.

46 C 5737..91¢
Postage, 6¢ extra

Self-honing, leather sharpening side and black heavy horsebide finishing side. Nickel plated swivel. Size, 3¾ by 2¼ in.

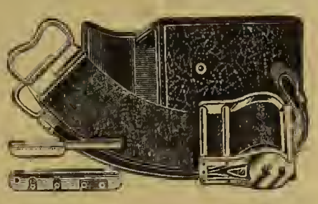
46 C 5701
........85¢
Postage, 5¢ extra

Genuine horsehide Strop. Sharpening side treated with a self - honing preparation that works wonders with dull razors. Lengtb, 19 inches. Widtb, 2⅛ inches.

46C5703
....$1.23
Postage, 6¢ extra

Russian finish genuine Sheil Horsehide Strop. Self-boning sharpen side; excellent finish side. Length, 25 inches. Width, 2½ inches.

46 C 5717
....$2.76
Postage, 6¢ extra



Our Finest Stropper

Kanner's "Slyde-Stroke" Stropper. Improved model. For old style razors and all safety razor blades. A very efficient stropper, easy to use and no complicated mechanism to get out of order. Width of stropper 2⅜ inches. Has holders for all safety razor blades. Complete instructions with each stropper. Leatherette case.

46 C 5736—
Complete...... $3.12
Postage, 6¢ extra

One of Our Best Strops

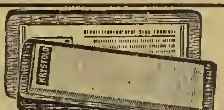
Sharpening strop made from select horsehide. Has plenty of draw and is unexcelled for quick sharpening. Finishing strop is extra soft and heavy shell horsehide. Gives velvet edge. Regulation barbers' size: length, 26 inches: width, 2½ inches. Strong, handy, gilt clutch swivel.

46 C 5719..........$1.90
Postage, 6¢ extra

Barbers' Model

We particularly recommend this strop for either professional or home use. Barbers' regulation style solid leatber strop. Prepared leather, self honing, sharpening strop. Heavy shell horsebide finisbing strop. Gilt swivel snap. "Broken in."26 by 2½-in.

46 C 5722..........$2.25
Postage, 6¢ extra



A fine, big, fast-cutting Hone. Size, 6½ by 2½ incbes. Smootb, uniform texture. Hardwood case.

46 C 5751...........$1.19
Postage, 6¢ extra

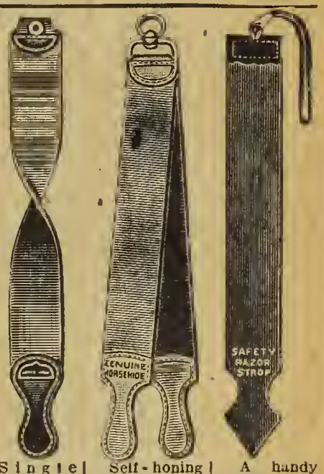
Well known "Pikes Swaty" Hone. Sharpens well either dry or with oil or water. Especially suited for fine razors. Size, 5⅛ by 2 inches.

46 C 5757 ....62¢
Postage, 5¢ extra

For Dull Razors

Has 3 stropping surfaces instead of 2 as in most strops. One surface especially treated to sharpen very dull razors. Double swing strop, combination barbers' canvas and genuine borsehide. "Broken in," ready for use. Strongly sewed; nickel plated hook. Full size, 26 by 2¼ inches;

46 C 5725—$1.32
Postage, 6¢ extra



Single shell horsebide Strop. Sharpen side, natural finish. Finish side, tan waxed. Length, 24 in. Width, 2¼ inches.

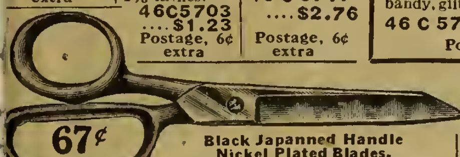
46 C 5707
..$1.05
Postage, 5¢ extra

Self-honing double leatber Strop. Black sharpen side. Finish side, smooth tan horsebide. Nickel swivel. Lengtb, 25 inches. Width, 2½ incbes.

46 C 5713
....$1.35
Postage, 6¢ extra

A handy Strop especially for use with the Auto-Strop Safety Razor or straigbt razors. Smooth finishedshell borsebide. Size, 16 inches by 1½ inches.

46 C 5698
Each...45¢
Postage, 4¢ extra



67¢

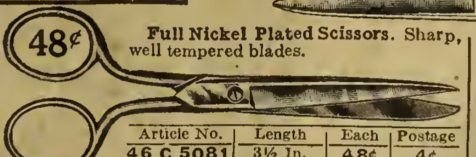
Black Japanned Handle Nickel Plated Blades.

Article Number	Length Inches	Each	Post. Extra
46 C 4956	6	$ .67	5¢
46 C 4961	7	.79	5¢
46 C 4966	8	.88	5¢
46 C 4971	9	1.09	6¢
46 C 4976	10	1.35	6¢

Polished, Full Nickel Plated.

Article Number	Length Inches	Each	Post. Extra
46 C 4981	6	$ .78	5¢
46 C 4986	7	.89	5¢
46 C 4991	8	.98	5¢
46 C 4996	9	1.21	6¢
46 C 5001	10	1.48	6¢

Note Great Reduction In Prices On All Our Shears.



48¢

Full Nickel Plated Scissors. Sharp, well tempered blades.

Article No.	Length	Each	Postage
46 C 5081	3½ In.	48¢	4¢
46 C 5086	4 In.	56¢	4¢
46 C 5091	5 In.	67¢	4¢
46 C 5096	6 In.	78¢	4¢

92¢

Bent Pattern Shears

Not only adapted for all work for which the straight pattern is used, but is the ideal Shear for cutting cloth on a table. Bent handle gives full cut of the blade and enables one to follow a line without lifting material.

Black Japanned Handle, Nickel Plated Blades.

Article Number	Length Inches	Each	Post. Extra
46 C 5046	8	$ .92	5¢
46 C 5051	9	1.21	6¢
46 C 5056	10	1.47	6¢

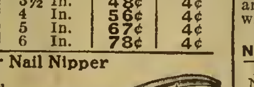
Polished, Full Nickel Plated

Article Number	Length Incbes	Each	Post. Extra
46 C 5061	8	$1.02	5¢
46 C 5066	9	1.35	6¢
46 C 5071	10	1.63	6¢

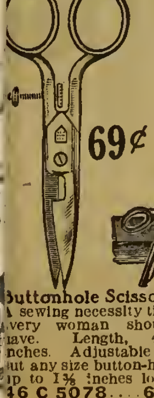
Toe and Finger Nail Nipper

Fine quality steel, nickel plated finish. Very strong and powerful. Will cut tbe tougbest nails easily. Lengtb, 4⅛ in.

46 C 5137........$1.12
Postage, 4¢ extra



$1.12

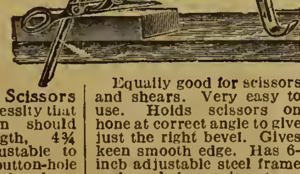


69¢

Buttonhole Scissors

A sewing necessity that every woman should have. Length, 4¾ inches. Adjustable to cut any size button-hole up to 1⅜ inches long.

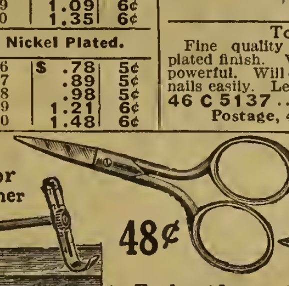
46 C 5078....69¢
Postage, 4¢ extra



Scissor Sharpener

Equally good for scissors and shears. Very easy to use. Holds scissors on hone at correct angle to give just the right bevel. Gives keen smooth edge. Has 6-incb adjustable steel frame and good sharpening stone.

46 C 5126.......60¢
Postage, 5¢ extra

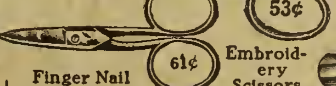


48¢

Embroidery Scissors

Handy size Embroidery Scissors 3½ inches long. Full nickel plated with sharp edge blades, carefully fitted to cut to the extreme points.

46 C 5081..48¢
Postage, 4¢ extra

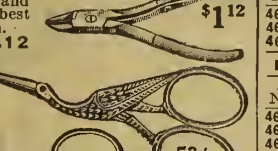


61¢

Finger Nail Scissors

Length, 3 inches. Fine heavy curved blades. A strong pair of scissors, especially tempered to hold their edge.

46 C 5116.61¢
Postage, 3¢ extra

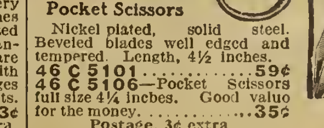


53¢

Embroidery Scissors

The popular Stork Style Embroidery Scissors, 3½ inches long. Nickel plated blades with gilt handles. Blades are well tempered with keen cutting edges and sharp points.

46 C 5111..53¢
Postage, 3¢ extra

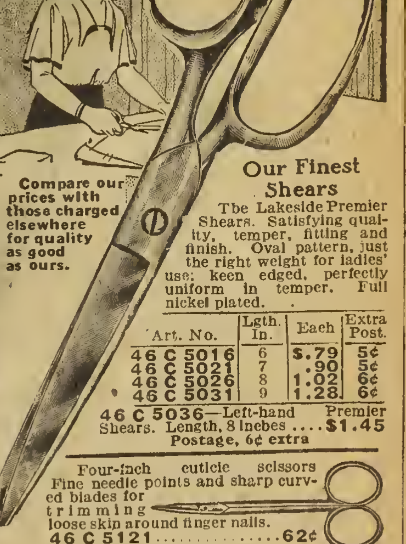


35¢

Pocket Scissors

Nickel plated, solid steel. Beveled blades well edged and tempered. Length, 4½ inches.

46 C 5101.............59¢
46 C 5106—Pocket Scissors full size 4¼ incbes. Good valuo for the money..............35¢
Postage, 3¢ extra



79¢

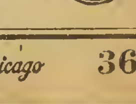
Compare our prices with those charged elsewhere for quality as good as ours.

Our Finest Shears

Tbe Lakeside Premier Shears. Satisfying quality, temper, fitting and finish. Oval pattern, just the right weight for ladies' use; keen edged, perfectly uniform in temper. Full nickel plated.

Art. No.	Lgth. In.	Each	Extra Post.
46 C 5016	6	$.79	5¢
46 C 5021	7	.90	5¢
46 C 5026	8	1.02	6¢
46 C 5031	9	1.28	6¢

46 C 5036—Left-hand Premier Shears. Length, 8 Incbes $1.45
Postage, 6¢ extra



Four-inch cuticle scissors Fine needle points and sharp curved blades for trimming loose skin around finger nails.

46 C 5121...............62¢
Postage, 3¢ extra

Shaving Brushes that last and Shaving Preparations are listed on Page 390

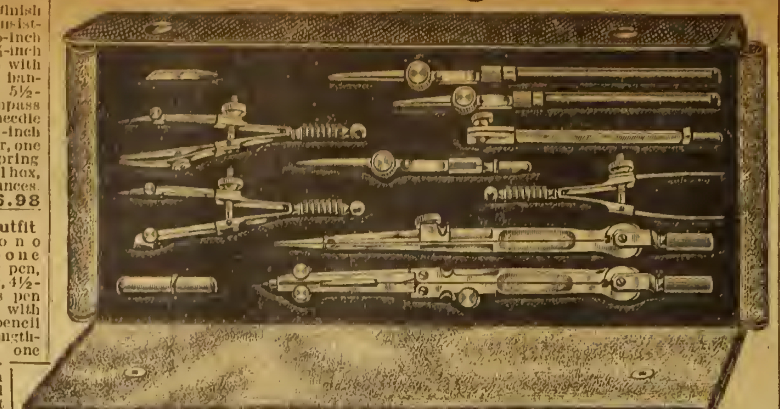
Mechanical Drawing Instruments

Quality Outfit

Nickel finish outfit. Consisting of one 5-inch and one ¾-inch ruling pens with joint bone handles, one 5½-inch compass with fixed needle point, 4½-inch plain divider, one 3-inch spring bow pen with metal handle, celluloid protractor, pencil box, and leatherette case, velvet lined. Ship. weight, 10 ounces.
57 C 9903..............................$6.98

Nickeled Outfit

Contains one 5¾-inch bone handle ruling pen, 4-inch divider, 4½-inch compass pen and pencil, with pen and pencil point and lengthening bar, one small compass with pen and pencil point and protractor. Plush lined case with bar lock. Size of box, 3½ by 7 inches. Shipping weight, 10 ounces.
57 C 9908..............................$2.75



Especially designed for Architects and Students. Absolutely accurate and built to last for years

These instruments are constructed of highest grade tempered (hardened) steel, with highly polished nickel silver finish. Set consists of following pieces: 6-inch compass with pencil point, extra pen point and lengthening bar; 6-inch hair spring divider; 3½-inch spring bow pen; 3½-inch spring bow divider; 3½-inch spring bow pencil; 4½-inch and 5½-inch ruling pens with ebony handles and box of leads. Shipping weight, 14 oz. Reduced prices:

$10.98 Complete Set in Genuine Leather Case

57 C 9922—Quality "A" Set in Genuine Leather Case. Size, closed, 8½ x 4 inches. Complete..........**$10.98**

$9.98 Complete Set in Imitation Leather Case

57 C 9923—Quality "B" Set. Same as above, except Imitation Leather Case. Complete..................**$9.98**

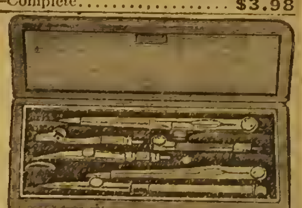
SPECIAL Complete Outfit—with 5 extra Pieces—FREE! $5.98

A special offer, good only as long as present stock lasts. Same number of pieces as in "A" and "B" sets—high quality, well-constructed, accurate. Bright nickel silver finish. Imitation leather case, plush lined. Size, closed, 8½ x 4 inches.

With each outfit we give FREE one 45-degree and one 60-degree 8-inch wood triangle. Also one No. 5-H and one No. 2-H Van Dyke Drawing pencil. One soft eraser. All included with each outfit without extra charge. Shipping weight, complete, 1½ pounds. A real bargain—order now before they are all gone.
57 C 9918—Complete set, SPECIAL..**$5.98**

High School Outfit

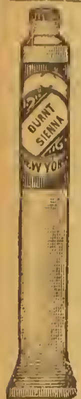
Contains 5¾-inch compass with pencil and pen points and lengthening bar, 4½-inch plain divider, 3¼-inch spring bow pen, 5-inch and 5½-inch bone handle ruling pen and protractor. Plush lined case with bar lock. Shipping weight, 10 ounces.
57 C 9901—Complete..................**$3.98**



School Outfit

All nickel plated pieces, 5-inch ruling pen with bone handle, 4-inch plain divider, compass with fixed needle point, pen and pencil points and lengthening bar, and key. Plush lined box with bar lock. Size of box, 3¼ by 6¼ inches. Shipping weight, 7 ounces.
57 C 9906—Complete..................**$1.75**

Water and Oil Colors



Oil Colors in Tubes

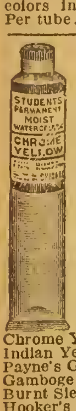
Very best American manufacture (Winsor & Newton's). These oil colors vary in size of tube as some colors are more expensive than others. For instance, a tube of Purple Lake is only half the size of Chrome Green.

Common Colors

Vermillion	Chrome Yellow
Antwerp Blue	Cinnabar Green, Light
Bitumen	Cinnabar Green, Medium
Brilliant Yellow	Vandyke Brown
Brown Pink	Raw Umber
Brown Ochre	Olive Lake
Burnt Sienna	Gamboge
Cinnabar Green, Deep	Ivory Black
Cremnitz White	Carmine Lake
Crimson Lake	Indian Red
Emerald Green	Indigo Blue
Flake White	Italian Pink
Chrome Green, Light	Transparent Yellow Lake
Chrome Green, Medium	King's Yellow
Chrome Green, Deep	Mauve
Chrome Yellow, Lemon	Naples Yellow, Light
Chrome Yellow, Medium	Naples Yellow, Deep
Chrome Yellow, Deep Orange	Lamp Black
Light Red	Neutral Tint
New Blue	Megilp
Payne's Gray	Permanent Blue
Purple Lake	Prussian Blue
Raw Sienna	Sap Green
Scarlet Lake	Silver White
Terre Verte	Golden Ochre
	Yellow Ochre
	Venetian Red

Shipping weight, per tube, 2 ounces.
57 C 9465—American manufacture, single tube, as named above. Per tube..**15¢**
57 C 9467—Winsor & Newton's Oil colors in above shades, one size only. Per tube..........................**27¢**

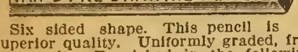
Moist Water Colors



In screw top collapsible tubes. Size, ½x3 inches. The Students' Moist Water Colors are prepared by a reliable manufacturer, from the very best pigments. They are fine colors. Regardless of our low price we can recommend them not only to students but to artists as well. We can supply the following staple colors. Weight, per tube, 1 ounce. Shipping weight, per tube, 3 ounces.

Chinese White	Orange
Rose Madder	Indigo
Sepia	Carmine
New Blue	Vermillion
Blue Ultramarine	Vandyke Brown
Prussian Blue	
Chrome Yellow	Charcoal Gray
Indian Yellow	Alizarin Crimson
Payne's Gray	Mauve
Gamboge	Emerald Green
Burnt Sienna	Indian Red
Hooker's Green No. 1	Sap Green
Hooker's Green No. 2	Cobalt Blue
Neutral Tint	Raw Umber
Yellow Ochre	Raw Sienna
Lamp Black	Crimson Lake
Light Red	Rose Carthan
Burnt Umber	Chrome Yellow

Students' Permanent Water Colors, as named above.
57 C 9483—Per tube........**$ .12**
12 tubes, assorted colors........**1.23**



Six sided shape. This pencil is of superior quality. Uniformly graded, free from grit. Furnished in the following degrees of hardness: 6B, 5B, 4B 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H. Shipping weight, per dozen, 1½ pounds.
57 C 9563—Each..**8¢** Dozen..**87¢**

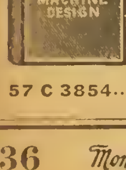
Van Dyke Artists' Erasers

A soft, pliable, highly efficient rubber in red color. Size, 1⅝ by 1⅛ inches. Shipping weight, 3 ounces.
57 C 9567..............................**6¢**

Thumb Tacks

100 in Box

57 C 9337—⅜-inch. Shipping weight, 4 ounces. Per box..................**21¢**
57 C 9339—7/16-inch. Shipping weight, 5 ounces. Per box..................**24¢**
57 C 9341—½-inch. Shipping weight, 6 ounces. Per box..................**30¢**



Mechanical Drawing Book

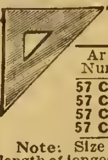
By F. L. Sylvester.

First principles of mechanical and geometric drawing and workshop mathematics. Cloth bound. Size, 5½ by 7½ inches; 333 pages; 215 illustrations. Shipping weight, 1½ pounds.
57 C 3854..............................**$2.38**

Mechanical Drawing Supplies

T Squares

T square, made of solid mahogany with ebonized edge, fixed head. Shipping weight, each, 2 pounds.
57 C 9947—Length, 24 inches..**67¢**
57 C 9949—Mahogany T square, same as 57 C 9947. Length, 30 inches **87¢**
57 C 9944—Maple blade, fixed head. Length, 24 inches..................**29¢**
57 C 9945—Maple blade, fixed head. Length, 30 inches..................**32¢**



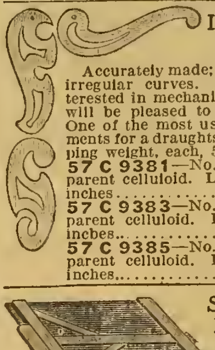
Transparent Celluloid Triangles, 45 Degrees

Article Number	Size In.	Ship. Wt.	Each
57 C 9375	6	3 oz.	30¢
57 C 9376	8	4 oz.	40¢
57 C 9377	10	4 oz.	60¢
57 C 9378	12	5 oz.	80¢

Note: Size given on triangles is the length of longest sides.

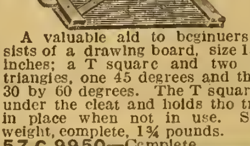
Transparent Celluloid Triangles 30 by 60 Degrees

Article Number	Size	Ship. Wt.	Each
57 C 9365	6 inches	3 ounces	23¢
57 C 9366	8 inches	4 ounces	35¢
57 C 9367	10 inches	4 ounces	47¢
57 C 9368	12 inches	5 ounces	59¢



Irregular Curves

Accurately made; for drawing irregular curves. Anyone interested in mechanical drawing will be pleased to own a set. One of the most useful instruments for a draughtsman. Shipping weight, each, 5 ounces.
57 C 9381—No. 14, transparent celluloid. Length, 10½ inches..................**49¢**
57 C 9383—No. 15, transparent celluloid. Length, 8⅞ inches..................**72¢**
57 C 9385—No. 16, transparent celluloid. Length, 7⅞ inches..................**65¢**

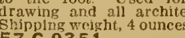


Scholars' Drawing Kit

A valuable aid to beginners. Consists of a drawing board, size 13 by 19 inches; a T square and two wooden triangles, one 45 degrees and the other 30 by 60 degrees. The T square slides under the cleat and holds the triangles in place when not in use. Shipping weight, complete, 1¾ pounds.
57 C 9950—Complete........**90¢**

Richardson's Slide Rule

With this rule you can multiply, divide, solve proportion, extract square or cube roots, calculate interest and percentage and make all sorts of measurements. Metal stock, length, 11 inches, width, 1⅝ inches, with runner. Scales mounted on enameled metal. Shipping weight, 14 ounces.
57 C 9315..............**$2.98**

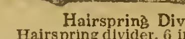


Architects' Scale Rule

Boxwood, 12 inch, divided 1/16, 3/32, ¼, ⅛, 3/16, ⅜, ½, ¾, 1½ and 3 inches to the foot. Used for mechanical drawing and all architectural work. Shipping weight, 4 ounces.
57 C 9351..................**49¢**

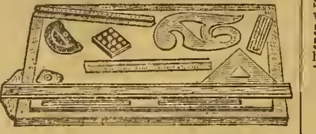
Engineers' Triangular Chain Scale

Boxwood, 12 inch, divided 10, 20, 30, 40, 50, 60 parts to the inch. Shipping weight, 4 ounces.
57 C 9353..................**49¢**



Hairspring Divider

Hairspring divider, 6 inches. Fitted with straightening device and set screw for holding in position. Exceedingly well made and will give good service in any draughting room. Shipping weight, 5 ounces.
57 C 9925..............**$1.45**

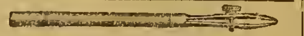


Complete Drawing Outfit

We have prepared a special outfit for the study of mechanical drawing in high schools or manual training courses. Outfit contains everything necessary, except the steel instruments; all pieces are of excellent quality. The outfit consists of one drawing board, size 15 by 20 inches; 18-inch T square; two wood triangles; 45 degree and 30 by 60 degree triangular wood scale; 4-inch brass protractor; 2 Van Dyke lead pencils; bottle waterproof drawing ink; one dozen thumb tacks; rubber eraser; plotting scale; flat 12-inch rule; irregular curve; six sheets drawing paper. Shipping weight, complete, 8 pounds.
57 C 9312—Complete....**$5.20**

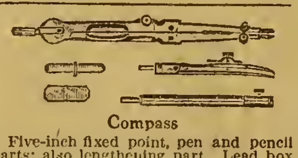
Liquid Drawing Inks

Waterproof drawing inks are equal to any other drawing inks on the market. Even flowing; permanent in color. Contents of bottles, ¾ ounce. Shipping weight, 5 ounces.
57 C 9323—Waterproof Black Ink. Per bottle............**21¢**
57 C 9325—Non-Waterproof Black Ink. Per bottle..................**21¢**



Ruling Pen

Five-inch ebony handle. Spring screw release, fitted with pen. Shipping weight, 4 ounces.
57 C 9926..................**39¢**

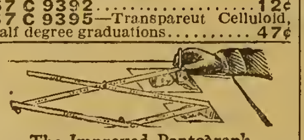


Compass

Five-inch fixed point, pen and pencil parts; also lengthening part. Lead box and key, metal handle. Ship. wt., 6 oz.
57 C 9924—Complete.....**$2.48**

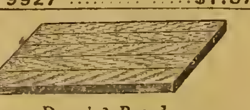
Protractors

Brass protractors, half circle. Whole degrees; diameter, 4 inches. Shipping weight, 3 ounces.
57 C 9392..................**12¢**
57 C 9395—Transparent Celluloid, half degree graduations..........**47¢**



The Improved Pantograph

Well made, mounted movable point and elbow. joint, pencil holder, divisions in figures. Shipping weight, 13 ounces.
57 C 9927..............**$1.87**



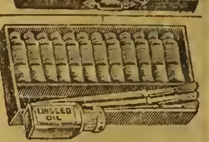
Drawing Board

Size, 20 by 24 inches. Made of selected white pine, ½ inch thick, with two drawing surfaces; no cleats. Shipping weight, 4 pounds.
57 C 9942................**$1.30**

Water Color Outfits

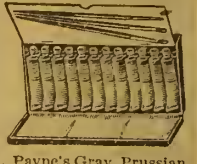
Students' Oil Color Outfit

Containing twelve tubes of selected oil colors. Mahogany palette, one bottle each of linseed oil and turpentine and four good bristle brushes. Wood carrying case. Size, 1¾ by 6½ by 12 inches. Shipping weight, 3¼ lbs.
57 C 9403... **$4.98**



Oil Colors for Amateurs

An outfit of 12 single tubes of finely ground brilliant and permanent oil colors. A bottle of refined linseed oil, three bristle brushes and full instructions for mixing paints. Neat cardboard box Size, 1 by 3¼ by 6¾ inches. Shipping weight, 12 ounces.
57 C 9440—Complete..................**$1.18**



Water Colors

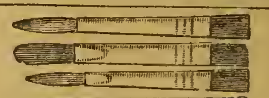
Neat Japanned metal box. Contains two camel's hair brushes and twelve tubes of assorted colors, as follows: Light Red, Pale Chrome Yellow, Neutral Tint, Van Dyke Brown, Payne's Gray, Prussian Blue, Gamboge Tint, Olive Gray, Emerald Green, Cobalt Blue, Chinese White and Burnt Sienna. Size of box, closed, 4 by 7½ inches. Shipping weight, 15 ounces.
57 C 9489—Complete....... **$3.23**

Pocket Water Color Outfit

Contains 12 pans and 2 tubes of moist water colors and two camel's hair brushes. Colors: Van Dyke Brown, Burnt Sienna, Emerald Green, Ivory Black, Prussian Blue, Ultramarine, Light Red, Gamboge, Crimson Lake, Vermillion, Yellow Ochre, Lemon Yellow, tube Chinese White, tube Sepia. Japanned metal box with flap cover arranged as palette. Size, 6½ by 3½ inches. Shipping weight, 13 ounces.
57 C 9479—Complete.......... **98¢**

Stencil Outfit

For making artistic decorations on portieres, curtains, pillow tops and center pieces. Outfit, containing 12 tubes Oil Color, size ½ by 4 inches, including one tube Gold and one tube Silver stencil ink; 8 large stencils, size 5½ by 4¼ inches; 12 brass thumb tacks, 3 Stencil brushes. Bottle indelible, medium. Directions for stenciling. Shipping weight, 26 ounces.
57 C 9406—Complete........**$2.30**



Artists' Brushes

In considering the purchase of artists' brushes, bear in mind that there are several different grades. The ones we handle are well made from the best materials and are thoroughly reliable. Shipping weight, each, 3 ounces.

Red Sable Brushes

Round and flat polished handles. Length of hair is graduated from about ¼ inch in No. 1 to ⅝ inch in No. 12.

Flat	Round	Size	Each
57 C 9588	57 C 9589	1	15¢
57 C 9590	57 C 9591	2	17¢
57 C 9592	57 C 9593	3	18¢
57 C 9594	57 C 9595	5	20¢
57 C 9596	57 C 9597	7	22¢
57 C 9598	57 C 9599	8	24¢
57 C 9600	57 C 9601	10	32¢
57 C 9602	57 C 9603	12	42¢

Artists' Superior Bristle Brushes

Round and flat. Numbers 1 to 12 series. Length of hair is graduated from about 5/16 inch in No. 1 to 1 inch in No. 12.

Flat	Round	Size	Each
57 C 9572	57 C 9573	1	12¢
57 C 9574	57 C 9575	2	13¢
57 C 9576	57 C 9577	4	14¢
57 C 9578	57 C 9579	6	15¢
57 C 9580	57 C 9581	7	16¢
57 C 9582	57 C 9583	8	16¢
57 C 9584	57 C 9585	10	19¢
57 C 9586	57 C 9587	12	21¢

Tracing Cloth — Drawing Paper — Blueprint Paper

Imported Drawing Paper

57 C 9515—Drawing paper especially adapted for colleges and schools. Size, 14 by 17 inches. Shipping weight, per quire, 10 ounces. Per quire......................**27¢**
57 C 9516—15 by 20 inches. Shipping weight, per quire, 22 ounces. Per quire..................**50¢**
57 C 9517—Medium; 17 by 22 inches. Shipping weight, per quire, 28 ounces. Per quire..........**68¢**

Cream Drawing Paper

The finest paper in the market for preliminary and general drawing and sketching. Will stand erasing perfectly; will take ink, pencil and water color well.
57 C 9965—Width, 30 inches. Shipping weight, 23 ounces. Per 5-yard roll................**67¢**
57 C 9969—Width, 30 inches. Shipping weight, 46 ounces. Per 10-yard roll............**$1.28**

Tracing Cloth and Tracing Paper

Cloth, one side glazed, the other dull. Shipping weight, per yard, 20 ounces.
57 C 9981—30 inches wide. Per yard.....................**$1.10**
57 C 9983—36 inches wide. Per yard.....................**$1.29**
57 C 9555—Parchment tracing paper in sheets. Size, 15 by 20 inches. 24 sheets for................**68¢**

Drawing Paper in Rolls

We do not cut rolls. White detail paper, cold pressed. Is expressly made of select stock, for drafting purposes. It stands fair amount of erasing and takes India ink and pencil well. Shipping weight, per 5-yard roll, 17 ounces.
57 C 9961—Medium. Width, 36 inches. Per 5-yard roll.......**68¢**
57 C 9963—Medium. Width, 36 inches. Per 10-yard roll...**$1.38**

Parchment Blueprint Papers

Freshly made. Will not spoil for months if properly kept.
57 C 9973—Satin, medium thickness, 30 inches wide. Shipping weight, per roll, 1 pound. Per 5-yard roll.**50¢**
57 C 9979—Parchment, thin, 36 inches. Shipping weight, per roll, 21 ounces. Per 10-yard roll....**95¢**

Academy Boards Smooth Fin.	Academy Boards Rough Fin.	Size	Ship. Wt.	Each
57 C 9992	57 C 9993	9x12	10 oz.	15¢
57 C 9994	57 C 9995	12x18	18 oz.	30¢
57 C 9996	57 C 9997	18x24	34 oz.	58¢

Artists' Prepared Smooth Canvas

Shipping weight, per yard, 21 ounces
57 C 9930—47 inches wide. Per yard..................**$2.87**
57 C 9931—47 inches wide. Per 6-yard roll............**$15.38**
57 C 9938—40 inches wide. Per yard..................**$1.67**
57 C 9939—40 inches wide. Per 6-yard roll..........**$8.98**

High grade Cameras and Photographic Supplies are shown on Page 557

School Supplies

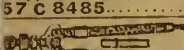
Students' Carrying Case

A durable case for hard usage. Leather finish, waterproof fiber. Two brassed spring catches with lock and key. Strong metal corners. Edges strengthened with metal rim. Size, 3½ by 9½ inches. Heavy padded handle. Shipping weight, 3 pounds.
557 C 8215 .... 98¢

Kindergarten Scissors

For cutting paper and similar work. Polished steel, Japanned handle. Length, 4½ inches. Shipping weight, 4 ounces.
57 C 8485 .... 18¢

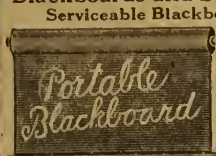
Compass



School compass and divider. Length, 5⅝ inches. Each in neat box with 6 leads in a nickel box. Shipping weight, 4 ounces.
57 C 8343 .... 47¢

Blackboards and Supplies

Serviceable Blackboard



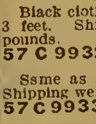
Well suited to school use kindergarten, or nursery. Substantially built of good materials which will give satisfactory service. Made of cloth with best liquid slating surface on both sides. Mounted on rollers, with rings, ready for hanging. Price is unusually low for such good quality.

Article Number	Size	Ship. Wt., Lbs.	Each
57 C 9934	2x2 feet	¾	$ .98
57 C 9935	3x3 feet	1½	1.78
457 C 8310	3x4 feet	2½	2.10
457 C 8313	3x5 feet	2½	2.39
457 C 8316	4x4 feet	2	2.24

Slate Cloth

Black cloth slated on one side. Width, 3 feet. Shipping weight, per yard, 2 pounds.
57 C 9932—Yard .... $ .85
Roll (12 yards). 9.25
Ssme as above, except 4 feet wide. Shipping weight, per yard, 2½ pounds.
57 C 9933—Yard .... $ .97
Roll (12 yards). 10.40

Liquid Slating



Andrews' liquid slating. A dull black which will not crack, glaze or reflect light. Takes either chalk or crayon, which may be easily erased. In cans. A gallon will cover about 250 square feet, 3 coats.

Article Number	Size	Shipping Weight	Each
57 C 8227	Pint	2¾ pounds	$ .79
57 C 8229	Quart	3¾ pounds	1.20
57 C 8231	½ gallon	7½ pounds	1.87
57 C 8233	Gallon	14¼ pounds	3.67

Blackboard Erasers

Noiseless, dustless, wool felt. Holds chalk; easily cleaned. Shipping weight, each, 4 ounces.
57 C 8327—
Each .... 15¢
Lakeside Blackboard Eraser. Andrews' style. Wool felt with curved wood handle; convenient to hold. Gathers and holds the chalk dust. Easily cleaned; durable. Shipping weight, each, 5 ounces.
57 C 8324—Each .... 8¢
Dozen .... 89¢

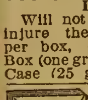
White Chalk

Not less than one box will be sold. Round white chalk crayons. Six dozen in box. Shipping weight, 1½ pounds.
57 C 8255 .... 23¢
Twelve dozen in box. Shipping weight, per box, 2¼ pounds.
57 C 8257—Per box .... 35¢
Case containing 100 gross. Shipping weight, per case, 230 pounds
157 C 8258—Per case ... $32.5

Dustless Crayons

Will not soil hands or clothing nor injure the board. Shipping weight, per box, 4 pounds. 57 C 8266—
Box (one gross) .... $ .57
Case (25 gross) 12.75

Crayolas



Waxed crayon; assorted colors, rich in tone. Shipping weight, per package, 4 ounces.
57 C 8436—
16 colors. Per pkg. . 18¢
57 C 8437—
8 colors .... 8¢
57 C 8438—
6 colors .... 5¢

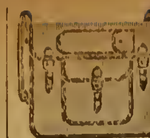
Paint Box

Standard water color paints in black Japanned metal box containing sixteen colors, two tubes of paint and one brush; 3 by 8½ inches. Shipping weight, per box, 12 ounces.
57 C 8439—Per box .... 59¢

Paint Box

Pocket box containing twelve special size pans moist water colors as follows: Burnt Sienna, Crimson Lake, Light Red, Vermilion, Yellow Ochre, Gamboge, Van Dyke Brown, Cobalt Blue, Ivory Black, Emerald Green, Prussian Blue, White. Two Brushes. Strong. Japanned tin box, 6 by 3 inches. Ship wt., per box, 10 ounces.
57 C 9481—Per Box .... 98¢

School Bag



Low in cost but well suited for rough wear. Rubberized cloth, drab color, bound and stitched all around and outside pockets. Large lap fastens with two buckles. Leather shoulder straps; 10½ by 13½ inches. Shipping weight, 11 ounces.
57 C 8234 .... 98¢

Lunch Box

So often one desires to carry a lunch but dislikes idea of carrying a bulky package afterward. This substantial black waterproof box when open is rigid and full size, 4 by 4 by 8 inches.
When not in use it folds into a size which may be carried easily in the pocket.
It is made of waterproof fiber and will stand long wear. Shipping weight, 8 ounces.
57 C 8223 .... 25¢

Our Largest School Case

$1.20

Large enough to be available for purposes besides school use. Well and strongly made of leather finished waterproof fiber, with all edges strengthened by a metal rim, and corners protected by metal. Two brassed catches. Size, 11 by 15¾ by 5¼ inches. Shipping weight, 4 pounds.
557 C 8221 .... $1.20

Home or School Globe

It shows all the latest geographical changes

72¢

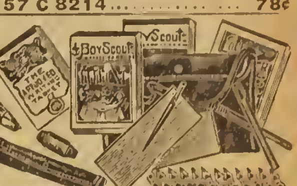
Used by children when they are first learning geography. For this purpose, it is practically as useful and instructive as a large globe.
This 6-inch globe is strongly made, mounted on substantial wire stand and is well varnished. Shipping weight, 2 pounds.
57 C 8280 .... 72¢

School Bag

An inexpensive bag as useful as others which cost more. Well made of good quality rubberized cloth, drab color. Cloth strap so it may be carried over shoulder. Size, 11 by 14 inches.
Shipping weight, 6 ounces.
57 C 8239 .... 49¢

Scholars' Outfit

An outfit that will delight any school child and give unusual service. Each piece has a definite use. Consists of one Waterproof School Bag with shoulder strap; size, 10 by 12¾ inches; one Ink Tablet, size, 5 by 8 inches. Ink Composition Book; two pencils, No. 2 lead, five-cent grade; one pencil sharpener, penholder, noiseless pencil box, two five cent pencil tablets, size 6x9 inches; one combined ink and pencil eraser; one dozen school pens; two colored blotters. Shipping wt., complete outfit, 2½ pounds.
57 C 6019—Outfit .... 98¢



School Book Case

Its good wearing qualities have won it many friends. Made of waterproof fiber with two brassed catches. All corners metal protected, edges all strengthened by a metal rim. Has a strong metal handle. Size, 13½ by 9½ by 5 inches. Shipping weight, 3 pounds.
557 C 8214 .... 78¢

Scholars' Outfit

Cloth case 10⅛ by 2½ by 1⅛ inches. Contains ruler; aluminum drinking cup; eraser; 4 pencils, rubber tips; pen holder, one pencil point protector. Shipping weight, complete outfit, 9 ounces.
57 C 9222—Complete outfit ... 49¢

Autopoint Pencil

Correctly balanced for easy and quick writing. Extra large barrel holds more than ordinary amount of lead. Enameled finish. Shipping weight, 3 ounces.
57 C 9859 .... 47¢

Buy Lead Pencils by the Dozen and Save

Thornward Climax

Thornward Climax pencil, maroon finish. No. 2 lead, nickeled tip and eraser. Ship. weight, per ½ doz., 3 oz.; per gross 3½ lbs.
57 C 7708—6 for ..... $ .22 57 C 7708—½ gross .. $2.60

Flashlight Pencil

Round shape; assorted bright colors; nickel tip; gray rubber eraser; medium soft lead. Shipping weight, per dozen, 5 ounces.
57 C 7715—6 for ... 17¢ Dozen .... 30¢

E. Faber Pencil

Hexagon shape, red polish. Silver tip and rubber eraser, medium soft grade pencil. Shipping weight, per ½ dozen, 3 ounces; per dozen, 5 ounces . .
57 C 7746—6 for .... 15¢
57 C 7746—Dozen .... 28¢

Thornward Business

Business pencil; eight sided; number 2 lead, nickel tip with eraser; natural finish. Shipping weight, per dozen, 5 ounces.
57 C 7714—3 for .... 13¢

Railroad Pencil

Round shape; polished finish; nickeled tip; eraser. Length, 6 inches. Shipping weight, per dozen, 6 ounces.
57 C 7705—Dozen .... $ .25
Gross (144) ... 2.85

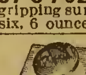
E. Faber Mongol

Six sided; yellow metal tip; in numbers 1, 2, 3, and 4 lead. Shipping weight of three, 2 ounces; per dozen, 5 ounces.
57 C 7735—3 for .... 15¢
Dozen .... 55¢

Automatic Pencil

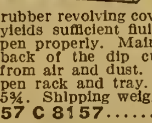
Nickel finish pencil. Safety pocket clip. Length, 5 inches. Shipping weight, 13 ounces.
57 C 8126 .... 16¢
57 C 8128—Three extra leads. Shipping weight, 2 ounces .... 5¢

Bulldog Paper Clips



57 C 7625—
With 1¼-inch gripping surface. Ship. weight of six, 5 ounces. ½ dozen .... 12¢
57 C 7628—With 2½-inch gripping surface. Ship. weight of six, 6 ounces. ½ dozen .. 23¢

Double Well Ink Stand



For red and black ink; glass with hard rubber revolving covers. Dip cup yields sufficient fluid to ink the pen properly. Main reservoir is back of the dip cup, protected from air and dust. Combination pen rack and tray. Size, 6¾ by 5¾. Shipping weight, 3 pounds.
57 C 8157 .... $1.18

Box of 10 97¢

Lead Pencils with Your Name Embossed on Each One

This is the latest novelty and is a mark of individuality. Hexagon shaped lead pencils with rubber erasers. Each pencil stamped with name without additional charge. Allow 10 days for shipment from factory in New York.
State name you desire stamped.
Shipping weight, 5 ounces.
257 C 7732—
Box of 10 .... 97¢

Easy Writer Pencil

Natural finish; gilt top; eraser; leads numbers 2 and 3. The pencil we use in our store. Shipping weight of three, 2 ounces; per dozen, 5 ounces.
57 C 7718—3 for .... 12¢
Dozen .... 44¢

Thornward Perfect

Six sided canary polish; gilt tip; eraser; leads, numbers 2 and 3. Ship wt. of three, 2 ounces; per dozen, 5 ounces.
57 C 7723—3 for .... 14¢
Dozen .... 48¢

E. Faber Dot Pencil

A round spiral fluted pencil finished in olive green and fitted with rubber erasers. Medium soft grade of lead. Shipping weight six, 3 ounces; of twelve, 5 ounces.
57 C 7724—6 for .... 23¢
57 C 7724—Dozen .... 41¢

Copying Pencil

Eberhard Faber's Mongol Copying Pencil; round shape; yellow; black oxidized tip; gilt band; fine quality purple copying lead. Shipping weight of six, 5 ounces.
57 C 7739—3 for .... 21¢
6 for .... 38¢

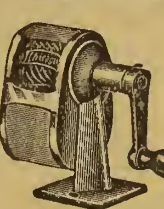
E. Faber Commerce

Six sided; enamel; finish gold stamped; metal tips; eraser; leads, numbers 2 or 3. Ship. wt. of three, 2 ounces; per doz., 5 oz.
57 C 7752—3 for .... 12¢
Dozen .... 45¢

Dash Pencil

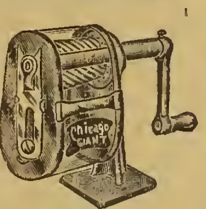
Plain cedar pencil with rubber inserted; number 2 medium soft lead. Shipping weight, per dozen, 5 ounces.
57 C 7720—Per dozen .... 16¢

Pencil Sharpeners



Chicago Pencil Sharpener

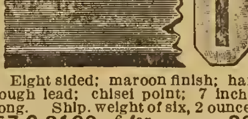
Will sharpen any standard size pencil. Simple in operation, rarely needs adjustment or replacement. Can be fastened on desk or wall. Two rotary cutters made of fine tool steel; 4¼ inches high. Shipping weight, 1¾ pounds.
57 C 7652 .... 95¢



Chicago Giant Pencil Sharpener

Will sharpen thousands of pencils of all diameters without adjustment or replacement. Has two rotary cutters made of fine tool steel. May be fastened on the desk or on the wall; 4 inches high. Shipping weight, 1½ pounds.
57 C 7654 . $1.48

Carpenter Pencils



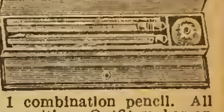
Eight sided; maroon finish; hard tough lead; chisel point; 7 inches long. Ship. weight of six, 2 ounces.
57 C 8109—6 for .... 29¢
Faber's carpenters' pencil. Oval; polished cedar; 7 inches long. Shipping weight of six, 3 ounces.
57 C 8113—6 for .... 19¢

Faber's pencil and ink eraser. Length, 2½ inches
Shipping weight of three, 6 ounces.
57 C 7840—3 for .... 13¢

Ink Eradicator

Liquid ink eraser for correcting mistakes in documents, letters, or wherever a particularly neat correction must be made. Will also remove ink or rust stains from fabrics. Two 1-ounce bottles. Shipping weight per box, 12 ounces.
57 C 7992—
Per box .... 35¢

Noiseless Pencil Case

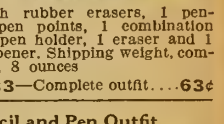


Contains 3 pencils, rubber tipped; 1 penholder; 1 rubber eraser; 1 combination pencil. All are school necessities. Outfit makes an acceptable gift. Shipping weight, complete outfit, 6 ounces.
57 C 8339—Complete outfit ... 23¢

Giant School Outfit

Decorated cardboard box. Contains 5 pencils with rubber erasers, 1 penholder, 4 pen points, 1 combination pencil and pen holder, 1 eraser and 1 pencil sharpener. Shipping weight, complete outfit, 8 ounces
57 C 8333—Complete outfit .... 63¢

Pencil and Pen Outfit



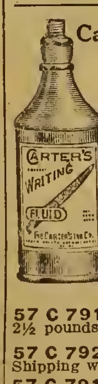
Decorated cardboard box containing 3 metal tipped pencils with erasers; 1 pen holder; 1 pencil holder; fitted with 2 short pencils, and 1 red rubber eraser. Shipping weight, outfit, 4 ounces.
57 C 8330—Complete outfit .. 38¢

Good Paste

Paste which is always ready for instant use. No water needed.
Has adjustable brush holder which keeps fingers clean.
57 C 7499—5½ ounces .... 38¢
Shipping weight, 1½ pounds.
57 C 7491—4-ounce bottle .... 18¢
Shipping weight, 1¼ pounds.
57 C 7493—8-ounce jar .... 28¢
Shipping weight, 1½ pounds.
57 C 7495—16-ounce jar .... 47¢
Shipping weight, 2½ pounds.
57 C 7497—
2-ounce collapsible tube .... 12¢
Shipping weight, 5 ounces.

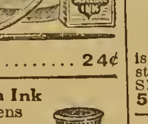
Inks

Carter's Writing Fluid



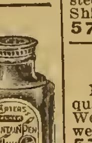
The standard office ink, especially adapted for use wherever a free flowing, fine-writing, non-fading ink is required. Writes a dark blue which turns to a permanent black when dry.
An ideal ledger ink. Free flowing. Writes a bright blue which turns to black.
57 C 7921—2-ounce bottle. Shipping weight, 13 ounces .... 8¢
57 C 7908 — ½ pint. Ship. weight, 1½ lbs. . 40¢
57 C 7912—1 pint. Shipping weight, 2½ pounds .... 78¢
57 C 7921—Twelve 2-ounce bottles. Shipping weight, 5 pounds .... 87¢
57 C 7917—1 quart. Shipping weight, 5 pounds $1.15

Indelible Marking Ink



For marking linen and other fabrics. Jet black. Will not injure the most delicate fabric. Linen stretcher and special pen included with each bottle; ½ ounce in a bottle. Shipping weight, 3 ounces.
57 C 7988 .... 24¢

Fountain Pen Ink



For use in fountain pens and stylographs. Flows freshly, will not clog, writes jet black. Nearly 2 fluid ounces in a bottle. Shipping weight, 9 ounces.
57 C 7932 .... 13¢

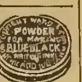
Carter's Crimson Ink

A bright red free flowing writing fluid; ideal for ruling. Two fluid ounces to a bottle. Shipping weight, 8 ounces.
57 C 7926 .... 13¢

Perfection Gold Ink

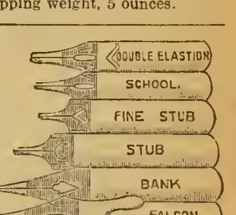
A brilliant gold ink which is used with an ordinary steel pen. In ½ ounce bottle. Shipping weight, 7 ounces.
57 C 7943 .... 15¢

Ink Powder



Makes one pint of fine quality blue black ink. Weight, 1 ounce. Shipping weight, 3 ounces.
57 C 7947—Blue Black .... 12¢
57 C 7952—Red .... 18¢

Pen Points



These pens are made of the best grade steel obtainable. Illustrations show the actual sizes. Shipping weight, dozen, ½ ounce; 12 dozen, 5 ounces.

	Doz.	Gross
57 C 8015— Stub, medium b oad	12¢	$1.20
57 C 8019—Fine stub	12¢	1.20
57 C 8057—Bank (No. 14) .	12¢	1.20
57 C 8061—Falcon (No. Q&S)	12¢	1.20
57 C 8064— Extra fine elastic (No. 128)	12¢	1.20
57 C 8028—Double elastic .	12¢	1.20
57 C 8023—School (No. 444)	12¢	1.20
57 C 8075— School, assorted	12¢	1.20
57 C 8079— Business, assorted	12¢	1.20

Pen Holder

Long tapered cedar handles, polished. Cork covered tip. Metal grip for pen. Length, 6¾ inches. Shipping weight of three, 3 ounces.
57 C 8164—3 for .... 13¢

Refer to the Index—Pages 323 to 333—for practical School Clothing

The Reliance Visible Typewriter

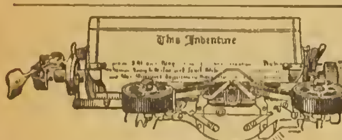
Standard Keyboard

The Reliance has a Standard Keyboard with four rows of keys and one shift. This is exactly the same as found on the best typewriters. Impartial experts are agreed that it is the fastest, simplest keyboard arrangement devised.

In probably 90 per cent of business establishments this style of keyboard is used. It is the keyboard used and endorsed by 95 per cent of the Commercial Schools and Business Colleges.

Shift Keys and Lock

Two Shift Keys, one on either side of the keyboard, are conveniently reached with either hand. Directly above the left hand shift key is the shift lock.

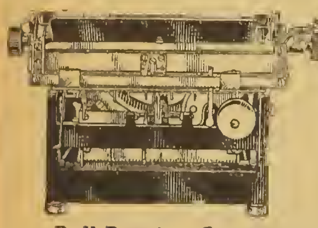


The Writing Is Visible as Each Letter Is Printed

Like all up-to-date typewriters, the Reliance is a visible writing machine. The operator has a clear view of the writing line at all times. Any errors are easily detected and may be corrected without removing the sheet from the machine.

The Scale

The scale which runs along under the ribbon, shows you plainly just how far on each line you have written. The line finder above the scale indicates the base of the writing line.



Ball Bearing Carriage

The Reliance carriage is light in weight, strongly constructed and free from vibration. Eight ball bearing rollers make the Reliance carriage very easy to move. Only the slightest tension is necessary to propel it from one side to the other.

Marginal Stops

The width of the margin may be regulated by the marginal stops, which are conveniently located on the back of the machine.

The Bell

The bell rings five spaces before the marginal stop is reached.

Book of Instructions Included Free with Each Machine

$53.75

Read Our 30-Day Trial Offer

Samples of Reliance Type Styles

When ordering, mention style of type you prefer, Pica or Elite. The Reliance types both capital and small letters.

For Foreign Language type or different style type, write for our circular.

Pica Type—This style

Elite Type—This style

This Standard machine will stand up well under continued use. Our price enables you to own a standard, dependable typewriter at a most attractive saving.

It has a standard key board, a light touch, and the writing is visible at all times. The carriage of the Reliance is ball bearing.

One valuable feature of this machine is the removable key board. For convenience in cleaning parts, the entire type basket and keyboard may be removed. This also makes it possible to substitute new type bars for printing any language you wish. For additional type bar sets, write us for particulars stating what you want.

A Simple Machine to Operate

Any boy, girl or grown up person can learn to operate this typewriter in a few days. Our instruction book accompanies the machine and gives all information necessary.

Sturdily Built Easy to Operate

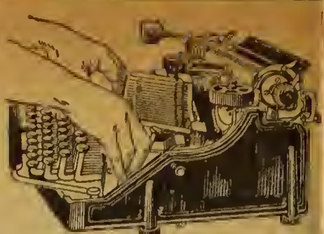
30-Day Free Trial Offer

Once you have a typewriter in your home or business office, you will wonder how you got along without it. We want you to know what the possession of a Reliance Typewriter really may mean to you. We are anxious to have you try the Reliance without any obligation whatever on your part. Try it for 30 days in your own home or business. Compare it with other machines on the market. If after 30 days you are not satisfied with it, write us for shipping instructions and we will refund your money and any transportation charges you have paid. Do not delay in ordering. You take nothing for granted.

Net weight of machine, 25 pounds. Unless otherwise stated, we ship by freight. Ship. wt., 58 pounds.

157 C 8503—Pica type machine........$53.75
157 C 8502—Elite type machine........ 53.75

If Any Other Information Is Desired, Send for Circular. It Is Free

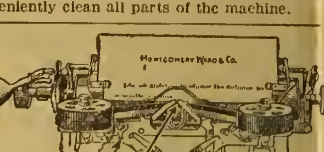


Removable Independent Keyboard

This is an exclusive feature on the Reliance Typewriter. By lifting the key marked "basket lock," the entire keyboard may be removed instantly from the machine.

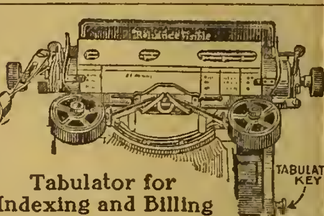
If you want to write in a foreign language or in different kind of type instead of buying an extra machine, all that is necessary is to buy an additional keyboard. Lift out one and insert the other.

The removable keyboard and type basket feature enables the operator to conveniently clean all parts of the machine.



Two Color Ribbon and Other Features

The ribbon runs through an improved ribbon guide and always remains flat. When using the two color ribbon you may change instantly from black to red or vice versa, by simply moving to the right or left the little ribbon lever. A convenient ribbon shift enables you to change instantly the direction of the ribbon travel. The ribbon spools are at the front of the machine. No tools are needed to insert a new ribbon.



Tabulator for Indexing and Billing

If a typewriter is to be used for commercial work such as billing, invoicing or indexing, a tabulator is indispensable.

The Reliance Tabulator consists of a bar at the back of the carriage graduated to correspond with the scale on the front of the machine. It permits writing either words or figures in columns, or to start the writing line at any fixed point. The bar is fitted with six tabulator stops, which may be spaced as desired by the operator.

The Improved 1922 Reliance Typewriter

$65.00

With New ←Features→

Improved Rebound Action

The perfected rebound arrangement on the 1922 Improved Reliance Typewriter is made of tempered steel and is placed at the base of the key bars. This improvement throws the type bar back in place with the utmost speed and smoothness. It does away with the possibility of type bar piling and damaging the type face.

The Latest Model Reliance Visible Typewriter is identical in appearance to that of the Reliance Visible Typewriter shown above. In addition to all the remarkable features of the Reliance Visible Typewriter the Improved 1922 model has a 11-inch carriage, admitting official No. 11 envelope: five feed rolls, permitting easy handling of small labels, shipping tags and similar items.

The Improved Rebound Action and the Automatic Ribbon Reverse alone are well worth the additional cost.

With all these improvements a better typewriter would be hard to find.

Automatic Ribbon Reverse

Automatic ribbon reverse does away with rewinding the ribbon from one spool to the other. With each stroke of the key the ribbon travels one type space toward the opposite spool. This gives you a fresh ribbon surface for printing each character. When one spool is about run off an eyelet catches the arm, indicated in the illustration above by an arrow, and moves it outward. This automatically sets the spools to reverse the winding and the ribbon is slowly wound back on the opposite spool as the keys are operated.

It has every improvement found on most of the higher priced machines, in addition to many special features, such as the Reliance removable keyboard and type, which enables you to use a foreign language keyboard on the same typewriter. (Write us for prices and mention languages in which you are interested).

The Improved Reliance has the following improvements: Perfected Rebound Arrangement which throws the type bar back in place with the utmost speed and smoothness, doing away with the possibility of type bars piling and damaging the type. Perfected Automatic Ribbon Reverse—accurate and always dependable. Extra wide carriage admitting official 11-inch envelopes.

The workmanship is excellent, the materials strong and durable, and the appearance extremely pleasing.

Every purchaser will appreciate the unusual value of this typewriter all the more when it is compared point for point with others

Net weight, 25 pounds. Shipping weight, 58 pounds.

Unless otherwise requested, shipment will be made by freight.

157 C 8504—Reliance Improved Typewriter. Pica Type........$65.00
157 C 8606—Reliance Improved Typewriter. Elite Type........$65.00

Typewriter Paper

Paper by the Ream

High grade paper put up in packages, each containing one ream (500 sheets). These superfine, white weave papers are manufactured expressly for use on typewriting machines. We do not sell less than one ream (500 sheets).

Linen Laid Watermarked

57 C 8568—Medium weight. Legal size, 8½ by 13 inches. Shipping weight, per ream, 5½ pounds. Per ream, 500 sheets........$1.97
57 C 8571—Medium weight. Letter size, 8½ by 11 inches. Shipping weight, per ream, 4¼ pounds. Per ream, 500 sheets........$1.67
57 C 8574—Heavy weight. Legal size, 8½ by 13 inches. Shipping weight, per ream, 6¾ pounds. Per ream, 500 sheets........$2.47
57 C 8577—Heavy weight. Letter size, 8½ by 11 inches. Shipping weight, per ream, 6¼ pounds. Per ream, 500 sheets........$2.15

Bond Paper

57 C 8550—Medium weight bond. Legal size, 8½ by 13 inches. Shipping weight, 5¾ pounds per ream. Per ream, 500 sheets........$1.57
57 C 8553—Medium weight bond. Letter size, 8½ by 11 inches. Ship. weight, per ream, 5 pounds. Per ream, 500 sheets........$1.28
57 C 8556—Heavy weight bond. Legal size, 8½ by 13 inches. Shipping weight, per ream, 6½ pounds. Per ream, 500 sheets........$1.90
57 C 8559—Heavy weight bond. Letter size, 8½ by 11 inches. Shipping weight, per ream, 5¼ pounds. Per ream, 500 sheets........$1.60

Special Bond Paper

Special Bond Paper. A fine bond paper. We recommend it for texture, strength and durability. Medium weight. Letter size, 8½ by 11 inches. Shipping weight, per ream, 4½ pounds.

57 C 8562—Per ream........$2.15
57 C 8565—Legal size: 8½ by 13 inches. Ship. weight, per ream, 6½ pounds. Per ream. $2.47

57 C 6110 — Bond Envelopes, exceptional quality. Size, 6¾. Shipping weight, box of 250, 2 pounds.
Box of 250. Price........$ .75
Box of 1000. Price........ 2.50

Onion Skin

Onion skin paper for manifold work. Letter size only, 8½ by 11 inches. Shipping weight, per ream, 2¾ pounds.
57 C 8580—Per ream, 500 sheets........98¢

Second Sheets

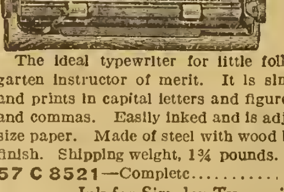
For this purpose, cheap paper is used. After testing all colors for our own use, we finally adopted the manila as giving the best carbon impressions. Manila; size, 8½ by 11 inches. Shipping weight, per ream, 3 pounds.
57 C 8583—Per ream, 500 sheets........63¢

Bond Paper in Tablets

Tablets for those who do little corresponding. Also for school work. Contains 50 sheets white bond paper. Size, 8¼ by 10¾ inches. Bound with neat cover and cardboard back. Ship. wt., 11 oz.
57 C 8582—Each........15¢

Stenographers' Note Books

Size, 6 by 9 inches. Have 80 leaves; white paper; ruled; manila covers; opens on end. The style of book in general use in all business offices. Shipping weight of three, 15 ounces.
57 C 8585—3 for........23¢



The Simplex Typewriter

$1.48

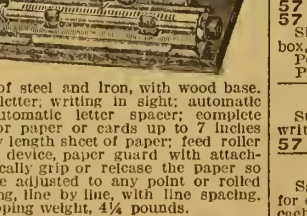
The ideal typewriter for little folks. A kindergarten instructor of merit. It is simple to operate and prints in capital letters and figures with periods and commas. Easily inked and is adjustable to note size paper. Made of steel with wood base mahogany finish. Shipping weight, 1¾ pounds.
57 C 8521—Complete........$1.48

Ink for Simplex Typewriters

In small metal tubes. Shipping weight, 2 ounces.
57 C 8525—Tube of purple ink........15¢

The Simplex Typewriter

$2.89



Strongly made of steel and iron, with wood base. A key for each letter; writing in sight; automatic inking device; automatic letter spacer; complete paper carriage for paper or cards up to 7 inches wide and for any length sheet of paper; feed roller with line spacing device, paper guard with attachment to automatically grip or release the paper so the paper may be adjusted to any point or rolled from the beginning, line by line, with line spacing. In neat box. Shipping weight, 4¼ pounds.
57 C 8505........$2.89

Typewriter Supplies

Typewriter Ribbons

Each ribbon packed in a box. We can furnish the following colors: Black; Black and Red; Purple; Purple and Red; Blue; Blue and Red. State color wanted. Shipping weight, each, 3 ounces.

57 C 8587—Reliance Visible, ½ inch........48¢
57 C 8586—Corona, 1½ inch........48¢
57 C 8589—Underwood, 7/16 inch........48¢
57 C 8591—Underwood, ½ inch........48¢
57 C 8588—Oliver. Width of ribbon, 7/16 inch........48¢
57 C 8593—Oliver, 9/16 inch........48¢
57 C 8590—Remington. Width of ribbon, 1⅜ inches...48¢
57 C 8595—Remington, ½-inch........48¢
57 C 8592—Smith Premier. Width ribbon, 1 15/32 inches.48¢
57 C 8594—L. C. Smith. Width of ribbon, ½ inch....48¢
57 C 8596—Royal, ½-inch........48¢

We can not furnish Bi-Color ribbons for Underwood 7/16 inches and Oliver 7/16 inches.

Typewriter Oil

Best quality double distilled oil. The only kind suitable for use on typewriters. One ounce bottle. Shipping weight, per bottle, 7 ounces.
57 C 8527—Per bottle........13¢

Perfect Oiler

For typewriters. Does not leak. Regulates the supply of oil to a drop. Length, 4 inches. Nickel finish. Shipping weight, 4 ounces.
57 C 8530........23¢

Type Cleaning Brush

57 C 8533—Shipping weight, 3 ounces...15¢

Carbon Paper

Best carbon papers for regular office correspondence and all typewriter work.

57 C 8540—Purple. Size, 8½ by 11.
57 C 8541—Blue. Size, 8½ by 11.
57 C 8542—Black. Size, 8½ by 11.
57 C 8543—Purple. Size, 8½ by 13.
57 C 8544—Blue. Size, 8½ by 13.
57 C 8545—Black. Size, 8½ by 13.

Shipping weight, per dozen sheets, 6 ounces, per box, 1½ pounds.
Per dozen sheets, any one size........18¢
Per box of 100 sheets........98¢

Circular Eraser

Superior quality for erasing pen, pencil or typewriter marks. Shipping weight of three, 3 ounces.
57 C 8536—3 for........9¢

Round Eraser with Brush

Same as 57 C 8536, except with brush attached for cleaning paper after erasing. Shipping weight, each, 1 ounce.
57 C 8537—Each........8¢

Master-Made Office Desks—strongly constructed, low priced. Page 441

Carter's Mucilage

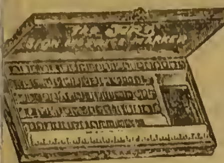
Contains 3½ fluid ounces. Shipping weight, 7 ounces.

57 C 7503—Per bottle..........12¢

57 C 7506—1 pint. Shipping weight, 3 pounds.....................75¢

57 C 7512—Invisible cement for mending broken glassware, crockery, ornaments, chairs, etc. One-ounce bottle. Shipping weight, 7 ounces..................17¢

Sign and Price Marker Outfit



Complete alphabet. Capitals ¾ inch high, small letters to match; figures; punctuation marks; index hand; ornaments; the characters $, ¢, ½, words "Each," "For," and "Per;" rule gauge. Tube of ink and stamp pad included. Packed in compact box. Ship. wt., complete, 3¾ lbs.

57 C 8743—Complete outfit, pounds......$2.98

Best Quality Deep Rubber Type Set

One to four lines may be assembled and printed. Illustrations show actual size and style of type. In strong cardboard box with tweezers and self-inking pad.

Note.—Where the quantity of letters is mentioned before font of type; as, 2A, 3a font of type; it means there are that many of the more frequently used capitals and small letters. For instance, 2A, 3a font of type has 2 capitals and 3 small letters, each, of those letters most frequently used. The other letters are in proportion, their number depending upon the importance of each letter; as, Z and Q will not occur as often as E or A.

AAAaaaaaa 12

57 C 8729—5A, 6a font of type; solid rubber; about 300 pieces, capitals, small letters, 3 sets of figures, punctuation marks, other necessary marks and ornaments; and a 3-inch 4-line metal type holder. Shipping weight, 18 ounces.....................$1.58

AAAAAAAABBB 11

57 C 8726—5A, 6a font of type; 300 pieces and a 3¼ inch 4-line metal holder. Shipping weight, 1 pound.....................$1.68

AaaaBBbbbCCcccDD 1234

57 C 8723—Special Card Printing Outfit, 2A 3a font of type; 158 pieces and 3¼ inch 2-line metal type holder. Shipping weight, 13 ounces............75¢

AaaaBBbbbCCccc 12

57 C 8717—2A, 3a font of type, containing about 150 pieces of the same assortment as 57 C 8729; and a 3¼-inch 2-line metal holder. Shipping weight, 13 ounces.....................65¢

Rubber Stamps

NOTE RUBBER CUSHION

Rubber stamps made to order. Mounted on polished wood base with black enameled handles. Rubber cushion between type and base.

257 C 7090—Three inches or less. Per line..............45¢

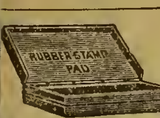
More than 3 inches, up to 4 inches. Per line.....................48¢

More than 4 inches, up to 5 inches. Per line.....................58¢

Prices are for type ¼ inch high or less. For larger than ¼-inch type, price per line is double.

Allow ten days for making stamps to order. We pay shipping charges.

Rubber Stamp Ink Pad



For use with rubber type outfits, rubber stamps or daters. Contains ink enough to last several months. Choice of: dark red; violet; green; light red; blue; black.

57 C 8756—Small size, 2 by 3¾ inches. Shipping weight, 5 ounces.....................23¢

57 C 8760—Large size, 2¾ by 4¼ inches. Shipping weight, 6 ounces.....................35¢

Rubber Stamp Inks

Rubber stamp ink of superior quality. Black; light or dark red; violet; blue, or green. State color wanted. One-ounce bottle. Shipping weight, 8 ounces.

57 C 8752.....................28¢

Standard Diaries for 1923

Diaries contain interest tables; interest laws, and legal holidays. Spaces for recording weather; temperature; cash accounts; bills payable and receivable; addresses. Women's sizes, 2⅝ by 4 inches and 3¼ by 5 inches.

Note.—A descriptive circular of Standard Diaries, including the above styles, will be sent upon request.

One day to page. Size, 3¼ by 6 inches. Shipping weight, each, 8 ounces.

57 C 9128—Canvas, leather bound flap, 1 pocket, red edges..................98¢

57 C 9129—Roan, tuck, 1 pocket, marbled edges..................$1.38

One day to page. Size, 2⅝ by 4 inches. Shipping weight, each, 5 ounces.

57 C 9132—Roan, tuck, 1 pocket....95¢

One day to page. Size, 3¼ by 5 inches Shipping weight, each, 7 ounces.

57 C 9135—Cloth, tuck, 1 pocket, marbled edges..................79¢

57 C 9136—Canvas, leather bound flap, 1 pocket, red edges..................92¢

57 C 9137—American Russia, flap pocket red edges..................$1.48

One day to page. Size, 3¾ by 6 inches. Shipping weight, each, 9 ounces.

57 C 9139—Canvas, leather bound, flap, 1 pocket, red edges..................$1.28

57 C 9141—American Russia, flap, 1 pocket, red edges..................$2.18

Two days to page. Size, 2⅝ by 4 inches. Shipping weight, each, 4 ounces.

57 C 9111—Cloth, tuck, 1 pocket, marble edges..................49¢

57 C 9113—American Russia, flap, 1 pocket, red edges..................97¢

Two days to page. Size, 3¼ by 5 inches. Shipping weight, each, 6 ounces.

57 C 9114—Cloth, tuck, 1 pocket, marbled edges..................58¢

57 C 9116—Roan, tuck, 1 pocket, marbled edges..................98¢

57 C 9117—American Russia, flap, 1 pocket, red edges..................$1.23

57 C 9119—Water grain flap, 2 pockets, gilt edges..................$1.53

Two days to page. Size, 3¼ by 6 inches. Shipping weight, each, 5 ounces.

57 C 9120—Cloth, tuck, 1 pocket, marble edges..................69¢

57 C 9122—Canvas, leather bound, 1 pocket, red edges..................79¢

57 C 9123—American Russia, flap, 1 pocket, red edges..................$1.38

Two days to page. Size, 3¾ by 6 inches. Shipping weight, each, 5 ounces.

57 C 9125—Canvas, leather bound, 1 pocket, red edges..................$1.00

57 C 9126—American Russia, flap, 1 pocket, red edges..................$1.72

Three days to page. Size, 2⅝ by 4 inches. Shipping weight, each, 5 ounces.

57 C 9198—Cloth, tuck, 1 pocket, marbled edges..................34¢

57 C 9199—Roan, tuck, 1 pocket, marbled edges..................57¢

Three days to page. Size, 3¾ by 5 inches. Shipping weight, each, 5 ounces.

57 C 9102—Cloth, tuck, 1 pocket, marbled edges..................42¢

57 C 9104—Roan, tuck, 1 pocket, marbled edges..................85¢

57 C 9105—American Russia, 1 pocket, red edges..................$1.10

Three days to page. Size, 3¼ by 6 inches. Shipping weight, each, 6 ounces.

57 C 9107—Cloth, tuck, 1 pocket, marbled edges..................52¢

57 C 9108—Canvas, leather bound, flap, 1 pocket, red edges..................73¢

57 C 9110—American Russia, flap, 1 pocket, red edges..................$1.27

Seven days to page. Size, 2⅝ by 5½ inches. Shipping weight, each, 4 ounces.

57 C 9142—Diary and Cash Book, leather bound, flexible round corners, gilt edges.....79¢

57 C 9143—Diary including 16 maps. Leather bound, flexible round corners, gilt edges..57¢

Five Year Diary

A few lines for every day in the year—each year's entries appearing under the entry for the year preceding and so on for five years. For recording events or information where "a year ago today" is interesting.

57 C 9146—Maroon Art Cloth, red edges; size, 3½ by 5¾ inches. Shipping weight, 11 ounces..................$1.18

57 C 9147—Flexible Seal, round corners, gilt edges; size, 3½ by 6 inches. Shipping weight, 11 ounces..................$2.50

57 C 9148—Maroon Art Cloth, red edges; size, 4⅛ by 6⅝ inches. Shipping weight, 13 ounces..................$1.73

57 C 9152—Maroon Art Cloth; red edges; size, 5 by 7⅝ inches. Ship. wt, 20 oz.....$2.50

57 C 9155—Flexible Seal, round corners, gilt edges; size, 5⅛ by 7¾ inches. Shipping weight, 20 ounces..................$3.50

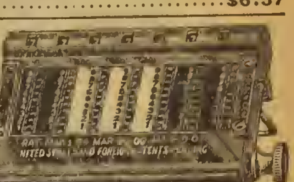
Defiance Check Protector

Positive protection against the danger of having **your** checks raised. The maker guarantees that, if you use this protector you "shall not be liable in the event that one of your checks is raised or altered, and that the use of the Defiance Dimunette is in conformity with the most exacting legal obligations in the matter of care devolving upon the maker of the check." This guarantee is given to every purchaser of the Dimunette. Made of steel with crushed bronze effect. Height, 3¾ inches; width, 3½ inches. Shipping weight, 37 ounces.

57 C 7607..........................$6.57

The Gem Adding Machine

For Merchants, Bookkeepers and Clerks



Do away with troublesome errors in addition. Nothing is more annoying after adding up a long column than to discover you have made a mistake somewhere. Or, even if the mistake is not in the adding, you must re-check all your figures when an error occurs because you cannot be sure that you have added them correctly.

The "Gem" positively does away with all this bother. It cannot make a mistake. Adds 7 columns; 9,999,999 or $99,999.99 **accurately**. Totals always in sight. Nickel plated, with folding legs. Shipping weight, 1¼ pounds.

57 C 9801..........................$12.25

57 C 9814—Same, except 9 column ($999,999.99) capacity. Shipping weight, 2 pounds.........$17.80

Notary Public Seals

Seals for Notaries Public; Corporations, Courts, Lodges, or any other desired purpose, made to your order. Japanned finish standard size press with 1¾-in. die. Illustration shows usual form, but we will make it any form desired. Shipping weight, 5 pounds.

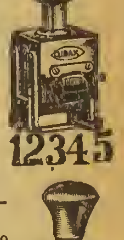
257 C 7592...$4.75

257 C 7596—Same, except 1½-inch die. Shipping weight, 3 lbs...$4.50

Note.—These seals are made to order and cannot be returned when made as directed. Allow ten days as this time is necessary in the factory before shipment is made. Seals will not be shipped C. O. D.

Note.—When State Coat of Arms, or any special engraving for lodges, societies, etc., is required, price will be extra, depending upon engraving desired. We will be glad to quote prices on request.

Automatic Numbering Machine



All steel, handsomely finished in nickel with rosewood handle. Non-rusting metal type. Self inking. Dust-proof. Has six wheels, which enables it to print from 1 to 999,999. Three movements: Consecutive, which prints 1-2-3-4 and so on. Duplicate, which prints 1-1-2-2-3-3-4-4 and so on (for use when number originals and one copy); and repeat, which simply repeats the number at which stamp is set. Height, 4 inches. Is put up in a box with type stick, bottle of ink and extra ink pad. Shipping weight, 8 ounces.

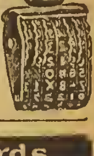
57 C 8748..............$4.85

Numbering Machine

Model 49A has features found on no other numbering machine, namely "nickel bronze" wheels, depressible and divided into equal tenths. It is self-inking. Numbers from 1 to 999,999 automatically. Has three movements, viz: Consecutive, duplicate and repeat. Shipping weight, 21 ounces.

57 C 8747..............$7.35

Dating Stamp



Consists of a metal holder with revolving rubber type bearing the words "Rec'd," "Ans'd," and "Entered," in addition to numbers providing for year and date, and names of months. Shipping weight, 4 ounces.

57 C 8735..................32¢

Numbering Stamp

Made similar to 57 C 8735. Six bands which number to 999,999. Shipping weight, 4 ounces.

57 C 8739..................39¢

Miscellaneous Office Supplies

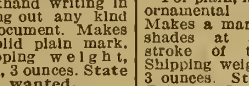
Gum Tape

Made of heavy kraft paper gummed on one side; 500 feet to the roll. Width of tape, 1 inch. Shipping weight, per roll, 1 pound.

57 C 9769—Per roll......17¢

57 C 9770—Same as above; 500 feet to the roll and ¾ inch wide. Shipping weight, per roll, 12 ounces. Per roll..................14¢

57 C 9771—Same as above; 500 feet to the roll; 1½ inches wide. Shipping weight, per roll, 2 pounds. Per roll..................27¢



Automatic Marking Pen

For engrossing and backhand writing in filling out any kind of document. Makes a solid plain mark. Shipping weight, each, 3 ounces. State size wanted.

57 C 8192—
Each........$ .17
Per dozen... 1.68

Size	Width
0	1/32
1	1/16
2	⅛
3	3/16
4	⅜
5	½

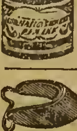
Automatic Shading Pen

For plain, fancy, and ornamental lettering. Makes a mark of two shades at a single stroke of the pen. Shipping weight, each, 3 ounces. State size.

57 C 8189—
Each........$ .17
Per dozen.... 1.68

Size	Width
0	1/16
1	⅛
2	3/16
3	¼
4	⅜
5	½

Shading Pen and Show Card Ink



Made especially for use with the automatic pens shown above. Choice of following colors: Dark blue; black; green; magenta; purple; scarlet; white; orange; yellow; pink. Ship. wt., per bottle, 9 oz.

57 C 8177—1-oz. bottle..20¢

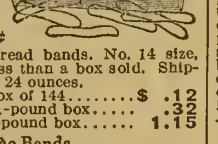
Police Star Badges

The official six ball pointed star. Nickel silver. Diameter, 2½ inches; with pin fastener. Shipping weight, each, 3 ounces.

57 C 9803—Police.
57 C 9804—Sheriff.
57 C 9805—Deputy Sheriff.
57 C 9806—Constable.
57 C 9809—Detective.
57 C 9810—Game Warden.
57 C 9811—Watchman.

Each..................................98¢

Rubber Bands



Gray rubber bands; assorted sizes, for use in home or office. Shipping weight, per box, 3 ounces.

57 C 7810—
Per box.........12¢

Stationers' gray thread bands. No. 14 size, 2 inches long. Not less than a box sold. Shipping weights, 3, 8 and 24 ounces.

57 C 7815—Per box of 144........$ .12
57 C 7819—Per ¼-pound box..... .32
57 C 7821—Per 1-pound box...... 1.15

Package Bands

Heavy gray rubber. Width, ¼ inch. Shipping weight of three, 2 ounces.

57 C 7823—5 inches long. 3 for...... 6¢
57 C 7827—7 inches long. 3 for...... 9¢

Ruby Rubber Bands

Special assortment of office and school sizes, arranged in box by size. Shipping weight, 12 ounces.

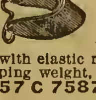
57 C 7829—¼ pound................38¢

Home Assortment

A small, handy box, containing various sizes of red bands, 1 gross. Shipping weight, 3 ounces.

57 C 7830.........................15¢

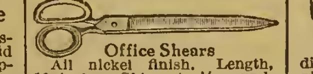
Eye Shade



Green transparent celluloid with elastic ribbon tie. Shipping weight, 4 ounces.

57 C 7587.........12¢

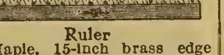
Office Shears



All nickel finish. Length, 10 inches. Ship. wt., ½ pound.

57 C 7416..........75¢

Ruler



Maple, 15-inch brass edge divided to sixteenths. Shipping weight, 6 ounces.

57 C 7584...........12¢

Post Card Albums

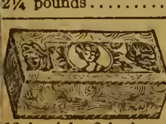
58¢

Keep your cards and pictures from becoming soiled or bent by using one of these attractive albums.

57 C 8905—Oblong album. Bound. Holds 192 cards; 3 on a page. Size, 11½ by 9 inches. Shipping weight, 1½ pounds..58¢

57 C 8908—Oblong album. Black embossed cloth binding. Holds 192 cards; 3 on a page. Size, 11½ by 9 inches. Shipping weight, 2¼ pounds.................69¢

Post Card Box



A fine box made of white basswood. Size, 12 by 4 by 6 inches. Decorated in colors. Two compartments. Holds about 400 post cards. Shipping weight, 13 ounces.

57 C 9060..............49¢

Post Card Projectors

Popular for home, parlor and auditorium entertainment. No views to buy; no attachments to wear out. No glass slides necessary. You use pictures from your collection of post cards, photographs, or from books. Any illustration (up to 5 by 9½ inches,) depending on size of machine, may be thrown on the screen, enlarged and shown in all colors. Is not limited to post card size. All electric post card projectors are fitted with lamps for 104 to 112-volt circuits, either alternating or direct current.

Note:—Not Mailable
Calcium carbide, for use with the acetylene machine; in 2-pound cans. Shipping weight, per can, 2½ pounds.
657 C 8850—Per can........35¢

Equipped with carefully ground and polished lenses, diameter, 3 inches. Thoroughly ventilated to keep machines cool. A marked improvement over the ordinary tin box type or low priced post card projectors. Throws 2 to 3-foot images on screen from 5½-inch post cards. Size of machine: Length, 9 inches; width, 6 inches; height, 8 inches. Shipping weight, 4 pounds.

557 C 8810—1922 Model Electric Projector. Fitted with electric cord and incandescent lamps..................$4.58

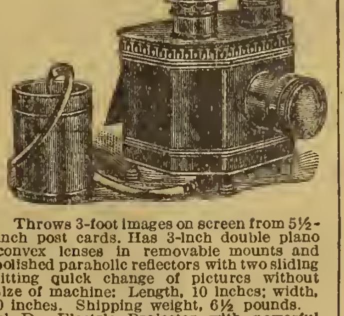
557 C 8814—1922 Model. Fitted with two powerful acetylene burners, including an acetylene generator. Price does not include carbide (See 657 C 8850)..................$4.58

Senior Post Card Projector

Equipped with 3½-inch double plano convex lenses in removable mounts; large polished parabolic reflectors and two sliding picture holders. Shows clear and sharp images 4 feet long from 5½-inch card. Shipping weight, 6 pounds.

557 C 8818—Fitted with two strong electric lamps and 8 feet of cord..................$11.57

557 C 8822—Fitted with acetylene burners. (See 657 C 8850 carbide)..................$11.57



Throws 3-foot images on screen from 5½-inch post cards. Has 3-inch double plano convex lenses in removable mounts and polished parabolic reflectors with two sliding picture holders, permitting quick change of pictures without opening the lantern. Size of machine: Length, 10 inches; width, 9¾ inches. Height, 10 inches. Shipping weight, 6½ pounds.

557 C 8826—Model D. Electric Projector with powerful incandescent lamps, connecting cord and plug..........$7.67

557 C 8830—Model D. Acetylene Projector. Fitted with two high power acetylene burners. Complete except carbide (See 657 C 8850)..................$7.67

Our Special. Throws 6-foot image upon screen from 5½-inch post cards. Fitted with plano convex lenses in removable mounts with pinion for focusing and has two patented picture holders. Shipping weight, 8 pounds.

557 C 8834—Special Electric Projector fitted with two powerful electric lamps and 10 feet of cord..................$21.00

557 C 8838—Special Acetylene Projector fitted with two Acetylene burners. Price does not include carbide. (See 657 C 8850)..................$21.00

Post Cards of National Views

57 C 8939—Seeing Niagara Falls. Artistic series, highly colored. Shipping weight, per package, 7 ounces.
Package of 15 cards..........18¢

57 C 8945—Yellowstone Park. Intensely interesting and instructive. Shipping weight, per package, 7 oz.
Package of 18 cards..........23¢

57 C 8930—A Trip Around Kansas City. Artistically colored. Shipping weight, per package, 7 oz.
Package of 20 cards..........18¢

57 C 8933—Rocky Mountains. Richly colored. Shipping weight, per package, 7 ounces.
Package of 18 cards..........23¢

Picturesque America

A series of post cards in beautiful colors, illustrating the more important scenes of interest in our country. Set contains 40 cards. Shipping weight, per set, 10 ounces.

57 C 8947—Per set.......68¢

Phostint Journeys

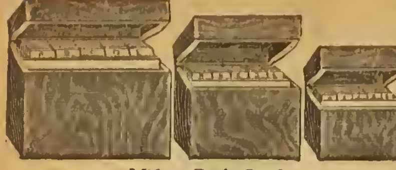
Cards for radiopticians. They represent subjects on which material for a lecture may be found readily. All cards are in colors and reproduce brilliantly. Set contains 40 cards. Size, 3½ by 5½ inches. Shipping weight per set, 10 oz.

57 C 9068—
New York City views.....68¢

57 C 9073—
Yellowstone Park..........68¢

57 C 9079—
Picturesque Colorado......68¢

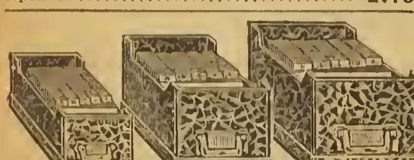
For Fireproof Safes refer to the Index, Pages 323 to 333



Midget Desk Outfit

Sturdy little card index boxes, handy for dozens of indexing purposes. Golden finish quartered oak. Each has A to Z index and 100 horizontal ruled cards.

57 C 9720—Size, 3 by 5. Shipping weight, 3¾ pounds.......... $1.10
57 C 9721—Size, 4 by 6. Shipping weight, 5¾ pounds.......... 1.57
57 C 9722—Size, 5 by 8. Shipping weight, 9 pounds.......... 2.10



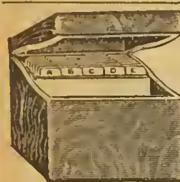
Fiber Board Index Files

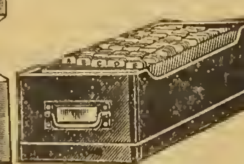
Meets the demand for a serviceable file; lower in price than wood. Tough binders' board, covered with agate paper. Follow block to keep cards upright. Perfect fitting covers. No guides or cards supplied unless ordered.

57 C 9725—Size, 3 by 5. Shipping weight, 1¼ pounds.......... $ .65
57 C 9726—Size, 4 by 6. Shipping weight, 1½ pounds.......... .83
57 C 9727—Size, 5 by 8. Shipping weight, 2 pounds.......... .98
57 C 9728—Size, 6 by 9. Shipping weight, 3 pounds.......... 1.23

For Cancelled Checks

57 C 9729—Size, 4 by 9. Shipping weight, 1 pound.......... .98





Small Index File

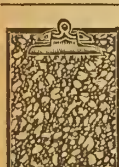
As a daily reminder file, this soon will pay for itself in convenience and insurance against forgetfulness. Golden oak finish wood. Includes 100, 3 by 5-inch cards and index. Shipping weight, 2 pounds.

57 C 9717......68¢

Fiber Index Files

Made of special, tough fiber board. Has alphabetical guide cards and 50 record cards. Size, 3 by 5. Steel follower block to keep the cards in upright position. The double reinforced bottom gives added strength. Fitted with dust-proof cover, 11½ by 5½ inches. Ship. wt., 2¼ lbs.

57 C 9749........98¢



Board Clips

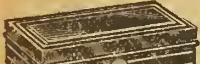
To keep letters, bills, etc., secure and yet convenient for reference. Nickel plated. Stout spring. Cloth bound tarboard back.

57 C 7344—Note size, 6½ by 11 in. Shipping weight, 10 ounces......49¢
57 C 7347—Letter size, 9 by 12½ inches. Shipping weight, 12 ounces..........56¢
57 C 7350 — Foolscap size, 9 by 15¼ inches. Shipping weight, 1¼ pounds..........63¢

Double Arch File

Mounted on striped wood back; well made and finished. Price is for File and Board only, and does not include perforator.

57 C 7358—Note size, 7 by 12 inches. Shipping weight, 1¼ pounds.79¢
57 C 7361 — Letter size, 9 by 14½ inches. Shipping weight, 1¾ pounds..........84¢
57 C 7364—Foolscap size, 9 by 17 inches. Shipping weight, 2 pounds..........92¢



Metal Bond Box

Black Japanned metal box with gilt decorations and handle on one end. Fitted with lock and two keys.

57 C 7404—Size, 2¾ by 5½ by 10⅜ inches. Shipping weight, 1¼ pounds..........98¢
57 C 7406—Size, 3¾ by 5¼ by 11 inches. Shipping weight, 1½ pounds..........$1.07

Hotchkiss Paper Fastener

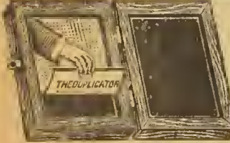
Firmly staples papers together; made of iron, nickel finished. Shipping weight, 1¾ pounds.

57 C 7553.......... $2.87

Flat staples, 3/16-inch, for use with above. Shipping weight, per box, 3 ounces.

57 C 7556—Box of 500......23¢

Ideal Duplicator



The Ideal Duplicator

Made in slate form with heavy substantial frames, and with two surfaces. A perfect reproduction of the manuscript written with a common pen on ordinary paper, can be reproduced about 75 times, or an original written on the typewriter can be reproduced from 50 to 60 times in a few minutes. When using a typewriter it is necessary to use our Hectograph ribbon quoted below. No washing necessary. Price complete with bottle of violet ink and sponge.

57 C 7467—Note size, 10¼ by 7⅛ inches. Shipping weight, 5¼ pounds..........$3.87
57 C 7471—Letter size, 11⅞ by 9¾ inches. Shipping weight, 6½ pounds..........$4.87
57 C 7475—Cap size, 14 by 9¾ inches. Shipping weight, 8½ pounds..........$5.87

Duplicator Paper

For use on Hectograph or Ideal Duplicator. Never print on both sides of the paper. Each package contains 250 sheets.

57 C 7479—Note size, 5½ by 8½ inches. Shipping weight, 1¾ pounds. Per package..........50¢
57 C 7484—Letter size, 8½ by 11 inches. Shipping weight, 3¾ pounds. Per package..........$1.00
57 C 7488—Cap size, 8½ by 13 inches. Shipping weight, 4½ pounds. Per package..........$1.54

Filing Devices

Buff File Guides

Twenty-five divisions, A to Z. Shipping weight, per set, 5 ounces.

57 C 9666—Size, 3 by 5. Per set..........23¢
57 C 9666—Size, 4 by 6. Per set..........32¢
57 C 9666—Size, 5 by 8. Per set..........41¢

Card Index Record Ruling

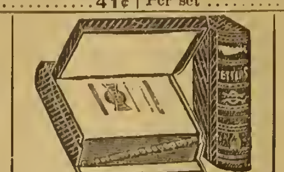
Shipping weight, per set of one hundred, 5 ounces.

57 C 9675—Size, 3 by 5. Per set..........13¢
57 C 9676—Size, 4 by 6. Per set..........32¢
57 C 9677—Size, 5 by 8. Per set..........49¢

Madison Letter File

Wood frame. Fancy paper covers. Indexed A to Z. Size, 11¾ by 12 by 3 inches. Shipping weight, 2¼ pounds.

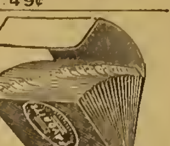
57 C 7331..........49¢



Thornwood Letter File

Strongly made; wood ends; joints stayed with cloth; index printed on both sides. Shipping weight, 2½ pounds.

57 C 7341..........67¢



Favorite File

Heavy Manila paper.

57 C 7334—6 by 11½ in. Holds 3000 letters. Shipping weight, 1 pound.49¢
57 C 7337—9½ by 11½ inches. Shipping weight, 1¼ pounds..........49¢

Loose Leaf Ledgers and Account Files

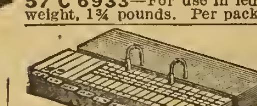
These exceptionally well made, loose leaf ledgers are light, rigid and of great durability. The expanding back is made of steel and covered with leather. It is fitted with a key lock—a few turns of the key spreads the back enabling you to insert new leaves. When tightened the binder clamps the leaves as though in a vise. The 1¼ inch back expands to 2¼ inches increasing the capacity of the binder to 375 pages.

$7.43

57 C 6909—Bound in heavy blue slate canvas, leather corners. Contains 200 sheets; size, 7½ by 10⅜ inches, and leather tabbed index. Shipping weight, 6½ pounds..........$7.43
57 C 6916—Bound the same as 57 C 6909, but larger. Has 200 sheets, size 9¼ by 11⅞ inches, and leather tabbed index. Shipping weight, 8¾ pounds..........$8.37
57 C 6922—Bound in red Russia leather back and corners, corduroy sides. Complete with 200 sheets; size, 7½ by 10⅜ inches and a leather tabbed index. Shipping weight, 6¾ pounds..........$9.65
57 C 6932—Similar to 57 C 6922, but larger; 200 sheets; size, 9¼ by 11⅞ inches and leather tabbed index. Shipping weight, 9½ pounds..........$10.40
57 C 6923—Extra sheets for ledgers 57 C 6909, 57 C 6922; size, 7½ by 10⅜ inches. Shipping weight, 1½ pounds. Per package of 100 sheets..........97¢

Extra Sheets for Loose Leaf Ledgers

57 C 6933—For use in ledgers 57 C 6916, 57 C 6932. Size, 9¼ by 11⅞ inches. Shipping weight, 1¾ pounds. Per package of 100 sheets..........98¢



Ledger Account File

May be used as a collection file. A small loose leaf ledger for keeping track of petty and transient accounts in statement form. Complete with five hundred 4 by 9-inch statements with blank lines for names of buyer and seller and date.

57 C 7308—Complete. Ship. weight, 2¾ pounds.$2.27
57 C 7313—Blank Statements. For use with ledger file 57 C 7308 above. Shipping weight, per package, 2¼ pounds. Package of 500 sheets..........87¢

Bound Blank Books, Ledgers, Journals, Record and Day Books

Hub Back

Full duck cap folio. Lies flat when opened. Imitation Russia leather corners; hub back; colored edges; smooth, white, woven paper; 8 by 12½ inches. Unit ruling for the following.

57 C 6883—Double Entry Ledger.
57 C 6886—Single Entry Ledger.
57 C 6889—Journals.
57 C 6892—Records.
57 C 6895—Broad Day Book.
57 C 6898—Long Day Book
57 C 6900—Cash Book.

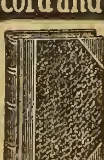
Number Pages	Shipping Weight	Each Complete
300	3 lbs.	$1.58
500	5 lbs.	1.98

Duck Bound

Bound in duck with imitation leather corners. Cap Folio smooth white woven writing paper, narrow faint ruling. Cannot supply with unit ruling. Ruled for the following:

57 C 6862—Double Entry Ledger.
57 C 6865—Single Entry Ledger.
57 C 6868—Journals.
57 C 6871—Records.
57 C 6874—Broad Day Book.
57 C 6877—Long Day Book
57 C 6880—Cash Book.

No. of Pages	Ship. Wt.	Each Complete
100	1¼ lbs.	$ .52
150	2 lbs.	.65
300	2½ lbs.	1.18
500	3¼ lbs.	1.69



Crown Folio

Crown folio. Bound in black cloth. Imitation Russia leather back and corners. Spring back. Size 8¾ by 14¼ inches. Unit ruling. Ruled for the following:

57 C 6935—Double Entry Ledger.
57 C 6938—Single Entry Ledger.
57 C 6941—Journals.
57 C 6944—Records.
57 C 6947—Broad Day Book.
57 C 6950—Cash Book.

Number Pages	Shipping Weight	Each Complete
150	2¾ lbs.	$1.32
300	3¾ lbs.	2.20
500	4¾ lbs.	2.98

These Show the Different Rulings in Our Blank Books

Double Entry Ledger

Double Entry—with unit lines

When ordering, be sure to state the kind of ruling you want; that is, Double or Single Entry Ledger, Journal, or any of the other rulings shown here. State number of sheets wanted.

Journal—Cash Book—Single Entry with unit lines

Journal—Cash Book—Sgl. Entry

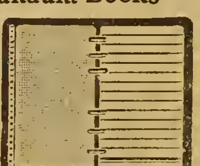
Record

Miniature Ledgers, Journals and Records

Bound in Green Cloth. Round corners. Green edges; 104 pages. Size, 5 by 7¾ inches. Shipping weight, each, 10 ounces.

57 C 6925—Double Entry Ledger.
57 C 6927—Single Entry Ledger.
57 C 6929—Journal.
57 C 6931—Record.
Each..........39¢

Loose Leaf Memorandum Books



Imitation leather covers, simple and practical. Sheets lie perfectly flat when book is open; 50 sheets and linen tab, index included.

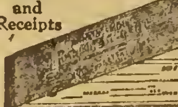
57 C 9250—Complete, size 5 by 3 inches; 6 rings. Shipping weight, 4 ounces..........98¢
57 C 9252—Extra sheets for 57 C 9250, 50 in package. Shipping weight, 2 ounces..........14¢
57 C 9255—Complete. Size, 6 by 3½ inches; 6 rings. Shipping weight, 6 ounces..........$1.10
57 C 9257—Extra sheets for 57 C 9255, 50 in package. Shipping weight, 3 ounces..........17¢

National Scale Duplicating Book

National Scale Book. Size, 6 by 10½ inches, duplicating; 300 original and 300 duplicates, 4 to the page. Shipping weight, 19 ounces.

57 C 6853....58¢

Notes and Receipts



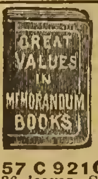
Cardboard cover. 50 forms on safety paper. 3¼ by 10⅞ inches. Shipping weight, each, 6 ounces.

57 C 6846—Notes..........18¢
57 C 6848—Receipts..........18¢
57 C 6850—Rent receipts...18¢

Farmers' Account Book

The lack of accurate cost records often prevents the farmer, as well as the business man, from making the profit he should. This book was prepared by a practical farmer and will help you to show a larger profit. Contains record spaces for 3 years. Bound in black cloth. 18 by 11½ inches. Shipping weight, 3¾ pounds.

57 C 6904...$4.25



Memorandum Book

Bound in imitation Russia red leather; ruled in dollars and cents columns. Shipping weight, each, about 8 ounces.

57 C 9210—Side opening, 36 leaves. Size, 2½ by 5¼ inches..........15¢
57 C 9214—Side opening, 48 leaves. Size, 3⅛ by 5⅛ inches..........15¢
57 C 9225—Side opening, 80 leaves. Size, 3⅞ by 6⅛ inches..........23¢
57 C 9229—Side opening, 72 leaves, as 57 C 9225. Size, 3⅞ by 6⅛ inches. Canvas letter index..........28¢
57 C 9235—Side opening, 72 leaves. Size, 4¼ by 6⅞ inches..........33¢

Single Drawer Card Files

Designed for a record system not liable to expansion. Golden finish quartered oak, equipped with follow block to keep cards in their proper position.

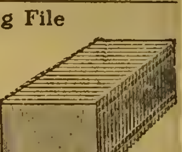
Article Number	Takes Card Size	Shipping Weight	Each
57 C 9696	3x5 inches	6½ pounds	$2.75
57 C 9697	4x6 inches	7½ pounds	3.75
57 C 9698	5x8 inches	10½ pounds	4.75
57 C 9699	6x9 inches	14 pounds	5.95
57 C 9700	Letter size	20 pounds	7.98

Expanding Envelopes

Expanding gussets are strongly reinforced at points of greatest wear, a feature of which insures many years of usefulness. The long flap and attached tape add to their security by preventing the loss of contents. 1¾ inches expansion. Shipping weight of four, 1 pound.

57 C 9764—4 by 9½ inches. For 4.......... 62¢
57 C 9765—5 by 11 inches. For 4.......... 75¢
57 C 9759—7 by 11 inches. For 3.......... 68¢
57 C 9760—9½ by 11¾ inches. For 3 75¢

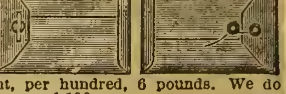
Expanding File



Gussets reinforced with cloth at points of most wear. Stiff front and back. Each pocket has ⅞ inch capacity. Indexed A to Z. Shipping weight, 8 ounces.

Number	Inches	Price Each
57 C 9754	6 x10¾	$2.10
57 C 9755	4¾x 9¾	1.78

Tension Envelopes



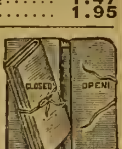
Open end heavy manila with patented fasteners. Shipping weight, per hundred, 6 pounds. We do not break packages of 100.

Spring Fastener

57 C 7375—Per 100, 7½ by 10½..........$1.85
57 C 7376—Per 100, 9 by 12.......... 2.25

Metal Fastener

57 C 7377—Per 100, 7½ by 10½.......... 1.47
57 C 7378—Per 100, 9 by 12.......... 1.95

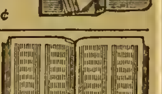


Document Envelopes

Extending envelopes of extra heavy paper. Flap ties with tape. Size, when open, 4½ by 10¼ inches. Shipping weight of three, 5 ounces.

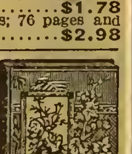
57 C 7374—3 for.......24¢

Mark Twain Scrap Book



Ready to paste in clippings for safe keeping. Gummed pages, bound in cloth. Shipping weights, 1¼, 2 and 3 pounds.

57 C 6979—Size, 6⅜ by 9⅜ inches; 64 pages; 2 gummed columns....$1.47
57 C 6981—Size, 8½ by 11 inches; 64 pages; 3 gummed columns..........$1.78
57 C 6984—Size, 10 by 12 inches; 76 pages and index; 3 gummed columns..........$2.98



Large Scrap Book

Cloth covers with large fancy design embossed in gold. Size, 11 by 14 inches; 60 pages; heavy white paper with patent back. Shipping weight, 28 ounces.

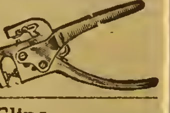
57 C 6987..........98¢

Automatic Paper Fastener

Used in the manner of a punch. Made of steel, nickel-plated. Length, 5 inches. Shipping weight, 9 ounces.

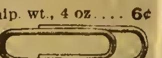
57 C 7574.......$2.18

Samson Eyelet Machine



57 C 7578—Eyelet Punch. Shipping weight, 12 ounces..........$2.87
57 C 7581—Box of 500 eyelets. Shipping weight, 10 ounces..........27¢

Gem Paper Clips

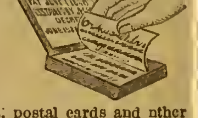


Length, 1¼ inches.

57 C 7618—Box of 100. Ship. wt., 4 oz.... 6¢

Ten boxes, 1,000 clips. Shipping weight, 2½ pounds..........39¢

Hectograph Duplicator



Hectograph Duplicator

For making copies of pen or typewritten originals in one or more colors. Copies resemble the original. The manner of using it is so simple that a boy can operate it. Invaluable for making circulars, examination papers, postal cards and other duplicated notices. When making the original copy on a typewriter it is necessary to use our Hectograph ribbon quoted below. Price includes violet ink and sponge.

57 C 7452—Note size, 9⅞ by 6½ inches. Shipping weight, 3½ pounds..........$2.18
57 C 7455—Letter size, 11⅞ by 9⅜ inches. Shipping weight, 5½ pounds..........$3.87

Hectograph Supplies

57 C 7458—Hectograph Composition, for refilling, packed in 2½-pound can. Shipping weight, 3 pounds..........$2.25
57 C 7461—Hectograph Duplicating Ink, black, violet, green, blue, red. State color. One-ounce bottle. Shipping weight, 6 ounces..........32¢
257 C 7464—Hectograph Typewriter Ribbon for use on Lawton Duplicator or Hectograph. Shipping weight, 4 ounces..........57¢

State name of typewriter when ordering

Vitrified Yellow Earthenware Mixing Bowls

Not affected by heat. Set includes: 8, 9, 10, and 11-inch bowls. Shipping weight, per set, 15 pounds.
550 C 1102—Set of 4.....**$1.49**

Gray Stoneware Butter Churns

$2.48

Glazed inside and out. Stoneware cover. Dasher made of hard maple. Length of handle, 3½ feet.

Article Number	Cap. Gal.	Ship. Wt., Lbs.	Each
450 C 1103	3	20	$2.48
450 C 1104	4	23	2.85
450 C 1105	5	28	3.25
450 C 1106	6	32	3.59

Glass Tea, Coffee and Spice Jars

Consists of 1 large Coffee Jar, height, 7 inches; 1 Tea Jar, height, 5 inches; 5 Spice Jars, height, 4¾ inches. Shipping weight, per set, 8 pounds.
450 C 1107—Set.........**$1.29**

$2.98

Bluebird Water Set

Bluebird decorations. Edges banded in blue. One 3-pint jug and six ½-pint tumblers. Ship. weight, set, 15 pounds.
450 C 1108—Set.........**$2.98**

Baby Plate

59¢

A heavy Plate, not easily broken. Juvenile decorations. Alphabet in gold around edge. Diameter, 6 inches. Depth, 1 inch. Shipping weight, set, 4 pounds.
550 C 216..................**59¢**

Fry's New Pearl Ovenglass Baking Ware

Fry's New Oven Glassware, with its pearly sheen, is unsurpassed in beauty by any other glass baking ware. It is suitable for use with your finest linen and silver.

Fry's Pearl Ovenglass Casseroles

Will fit any standard size frame. Shipping weights, 4½, 5, 6 and 10 pounds.

Number	Style	Size	Each
550 C 830	Round	7 in.	$1.39
550 C 831	Round	8 in.	1.69
550 C 832	Oval	8 in.	1.48
550 C 833	Oval	9 in.	1.98

Fry's Pearl Ovenglass Custard Cups

Capacity, 6 ounces. Shipping weight, set, 1½ pounds.
550 C 834—
Set of 6.....**$1.19**

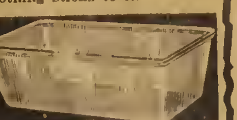
Pearl Glass Baking Set

Set consists of 11 important pieces: 1 biscuit pan, 11 by 8½ inches; 2 bread pans, 9¼ by 5 by 3 inches; 2 pie plates, 9⅜ by 1½ inches; 6 custard cups, 6 ounces each. Shipping weight, per set, 20 pounds.
450 C 840—Set..........**$4.85**

Fry's Pearl Oven Glass stands any amount of heat or cold. Food bakes more thoroughly in glass than in metal utensils bottom crusts are as richly browned as top. It is easily cleaned—nothing sticks to it.

85¢

Fry's Pearl Ovenglass Bread Pan



You may watch your bread or cake while baking. Size 9 by 5 by 2¾ inches. Shipping weight, 4½ pounds.
550 C 835..................**85¢**

Fry's Pearl Ovenglass Pie Plates

Pie crusts are more flaky if baked in glassware. Diameter, 9½ inches. Shipping weight, 3 pounds.
550 C 836..........**85¢**

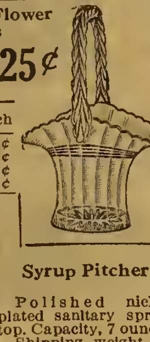
Lemon Juice Extractor

Five-ounce paneled pitcher of fire polished glass, serves as receptacle for juice. Reamer so constructed that seeds cannot pass through. Shipping weight, 1½ pounds.
50 C 1109..................**39¢**

Fancy Glass Flower Baskets

550 C 827 **25¢**

Size In.	Ship. Wt.	Each
5	¾ lb.	25¢
6¾	1 lb.	35¢
9¾	1¾ lbs.	49¢
11¾	3 lbs.	89¢



Syrup Pitcher

Polished nickel-plated sanitary spring top. Capacity, 7 ounces. Shipping weight, 14 ounces.
550 C 828....**48¢**

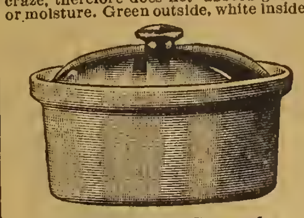
$2.19

Colonial Pressed Glass Water Set 7-Piece

One 1-quart pitcher and six ½-pint tumblers. Highly polished clear crystal glassware in a beautiful panel design. Shipping weight, per set, 15 pounds.
450 C 858—Complete set..**$2.19**

Hall's Vitrified Chinaware

A vitrified fireproof, cooking china; the hardest, strongest ware of its kind on the market. It stands all possible changes in temperature. It cannot craze, therefore does not absorb grease or moisture. Green outside, white inside.



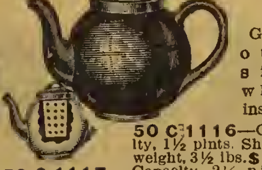
Vitrified China Casseroles

Green outside, white inside. Will fit frames of same size.

Number	Size, In.	Ship. Wt.	Each
550 C 1111	7 Rd.	7 lbs.	$1.19
550 C 1112	8 Rd.	8 lbs.	1.39
550 C 1113	9 Rd.	9 lbs.	1.50
550 C 1114	8 Oval	8 lbs.	1.39
550 C 1115	9 Oval	9 lbs.	1.50

$1.48

Percolator Tea Pot



Green outside white inside.

50 C 1116—Capacity, 1½ pints. Shipping weight, 3½ lbs.**$1.48**
50 C 1117—Capacity, 2½ pints. Shipping weight, 5 pounds.....**$1.85**

Fruit Bowl

$1.25

Two-handled Fruit bowl of brilliant, highly polished pressed glass, in handsome oval design, scalloped and paneled effect. Diameter, 12 inches, including handles. Shipping weight, 5 pounds.
550 C 868...............**$1.25**

Four-Piece Table Set

Panel design. Covered sugar bowl; creamer (capacity, 5 ounces); covered butter dish and a spoon holder. Shipping weight of set, 11 pounds.
450 C 856—Set..........**$1.79**

Table Tumblers

79¢ A Doz.	$1.10 A Doz.	79¢ A Doz.
Medium weight Tumblers. Crystal glass. Capacity, ½ pint. Shipping weight, per dozen, 7 pounds.	Thin blown Tumbler. Clearcrystal glass. Capacity, 9 ounces. Shipping weight, per doz., 7 lbs.	Medium weight Tumblers. Polished glass. Capacity, ½ pint. Shipping weight, per doz., 7 lbs.
550 C 860 Dozen..**79¢**	**550 C 862** Dozen ..**$1.10**	**550 C 861**— Dozen..**79¢**

Berry Set

One large bowl and six nappies. Size of bowl, 8 inches. Size of nappies, 4½ inches. Shipping weight of set, 12 pounds.
450 C 857—Set..........**$1.95**

Complete Glassware Table Set

Twenty-one pieces. Made of fire polished pressed glass, decorated in sunburst miter design. Seven-piece water set; seven-piece berry set; glass top salt and pepper; vinegar bottle; butter dish; sugar bowl; cream pitcher and spoonholder. Shipping weight, per set, 25 lbs.
150 C 855—Set............**$4.98**

$4.98

Grist Mill

99¢

Excellent For Grinding Chicken Feed

Also Serves as a Coffee Grinder

Grinds Coarse, Medium or Fine

Grind Your Own Flour!

Homeground flour, is not only more economical than patent flour but is also more appetizing and healthful. Home grinding retains the outer and coarser parts of the kernel which contain minerals beneficial as a tonic to the body. The mill clamps or screws to table. Cast iron, enameled in gray. Size of hopper, 5x5 in. Ship. weight, 15 lbs.
486 C 1966................**99¢**

Bottle Capper

Fastens cap securely. Adjustable—caps bottles up to 13¼ inches high. Will not damage bottles. May be attached to table. Shipping weight, 5 pounds.
86 C 2379
......**$1.10**

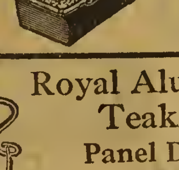
Crown Bottle Caps

Shipping, weight two gross, 2 pounds.
86 C 2383—
Two gross (288 caps).....**55¢**

24 Glass Bottles **$2.48**

Capacity, each, 24 ounces. Shipping weight of two dozen bottles, 45 pounds.
186 C 2380—
24 bottles..........**$2.48**

Steel Corn Popper



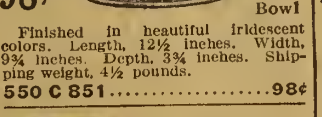
Cover operated by thumb at end of handle. Size, 7½ by 9½ by 2¾ inches. Shipping weight, 2 pounds.
86 C 1854—
.........**35¢**

Iridescent Glassware

14-Piece Punch Set

$3.48

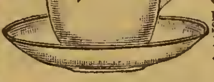
Two-piece punch bowl; 12 punch cups and 12 metal hangers. Golden iridescent colors. Diameter of bowl, 11½ inches. Height, 9 inches. Shipping weight, per set, 28 pounds.
450 C 850—Set..........**$3.48**



98¢

Fruit Bowl

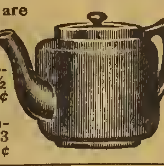
Finished in beautiful iridescent colors. Length, 12½ inches. Width, 9¾ inches. Depth, 3¾ inches. Shipping weight, 4½ pounds.
550 C 851..................**98¢**



Father's Cup and Saucer

St. Dennis shape. "Father" in gold. Gold on edges. Capacity, 10 ounces. Shipping weight, 1½ pounds.
550 C 217
..........**48¢**

Brown Earthenware Teapot

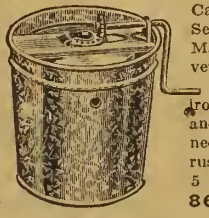


Glazed finish.
50 C 1100—
4-cup size. Shipping weight, 2½ pounds......**69¢**
50 C 1101—
8-cup size. Shipping weight, 3 pounds......**89¢**

Child's Breakfast Set

Four-color picture decorations. Edged in light blue. Porridge dish, mug and plate. Diameter of plate, 7¼ inches. Ship.wt., 3 lbs.
450 C 218—Set........**89¢**

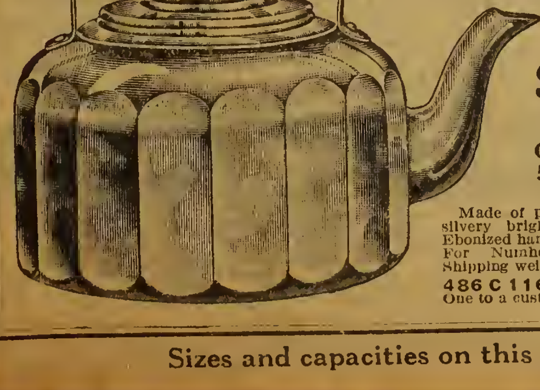
$1.29 **All Metal Ice Cream Freezer Extra Heavy**



Capacity, 2 quarts; Serves 12 persons Makes smooth, velvety ice cream. Ice pail is galvanized iron. Cream container and dasher are retinned steel. Cannot rust. Shipping weight, 5 pounds.
86 C 2150.**$1.29**

Mason Fruit Jars With Caps and Rubbers

Caps porcelain lined. Shipping weights, per dozen, 12, 16 and 22 lbs.
150 C 1519—
Pints, dozen..**83¢**
150 C 1521—
Quarts, dozen.**95¢**
150 C 1523—
½ Gallon, dozen
.........**$1.35**



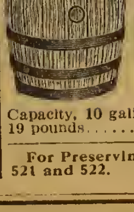
Royal Aluminum Teakettle

Panel Design

$1.89

Capacity 5 Quarts

Made of pure, seamless silvery bright aluminum. Ebonized handle and knob. For Number 8 stove. Shipping weight, 3 pounds.
486 C 1165—
One to a customer.**$1.89**



$1.25 **White Oak Kegs**

186 C 2294—
Capacity, 3 gallons. Shipping weight, 8 pounds **$1.25**
186 C 2296—
Capacity, 5 gallons. Shipping weight, 13 pounds.....**$1.80**
186 C 2297—
Capacity, 10 gallons. Shipping weight, 19 pounds...............**$2.55**

For Preserving Kettles, see Pages 521 and 522.

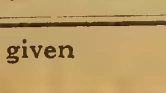
The Water Seal Steam Canner

$2.98

For Cold-Pack Canning
Holds Four 1-Quart Mason Jars

The cold pack process is one of the quickest, cheapest and most satisfactory methods of canning. The Water Seal Steam Canner preserves fruit by the cold pack process, but does away with heating the jars in hot water. First, the wire tray is put into the pail in about two inches of water. The "cold-packed" jars with the caps loosely in place, are put on the rack; the air chamber cylinder is slipped over the jars and rack, forced down into the water and locked into position by means of the wire locking brace. It is then ready to place on the fire for steaming.

Each canner is composed of three parts, as shown in small illustration. The pail and cylinder are coated with very durable gray enamel. Wire rack is rust proof. A complete time table, with directions for use is included. Shipping weight, 10 pounds.
186 C 666—
Complete.**$2.98**



THE COMPLETE SET

Sizes and capacities on this page may vary slightly from those given

"I Give Them The Same Tests You Do"

T. E. MALEY, *Manager of Home Furnishing Division*

It is my aim to show on these pages only those articles which will meet the requirements of the most particular women.

To determine whether or not an article shall appear in the catalogue, I first have it tested thoroughly just as you might test it in your own home. The article must be of practical usefulness, it must be of good quality—and neatly made. The fact that you see it on these pages is proof that it measures up to our high standards.

You may rest assured that any merchandise you select from these pages compares most favorably with the best of its kind produced.

For example: it would be possible for me to purchase aluminum utensils to sell at lower prices than we ask for Royal Aluminum Ware. They, perhaps, would look as well as our Royal, but they would be much lighter in weight. My experience has taught me that such utensils do not prove satisfactory.

I am very careful in specifying to our factories that only first class merchandise is acceptable, but I do not stop there.

In order to be sure that every article comes up to our standard of perfection, we have trained men and women who receive the goods and examine them. Any article that does not fully measure up to our standard is rejected and returned to the factory. That is the reason why ***Montgomery Ward & Co. can and do guarantee satisfaction or your money back.***

T. E. MALEY, *Manager Home Furnishing Division*

ROYAL

←*Look for this Trade Mark*

It is the mark of quality. Utensils bearing th Royal Trade Mark ..:e of the purest aluminum heavy gauge, well finished and highly polished

Avoid Scalding Your Hands!

$1.29

6-Quart Size Royal Aluminum Strainer Kettles
The cover is firmly held in place by grooved ears. In pouring contents the hands are entirely protected from escaping steam.

Number	Capacity	Ship. Wt.	Each
486 C 1158	6 quarts	3½ pounds	$1.29
486 C 1159	8 quarts	4 pounds	1.59

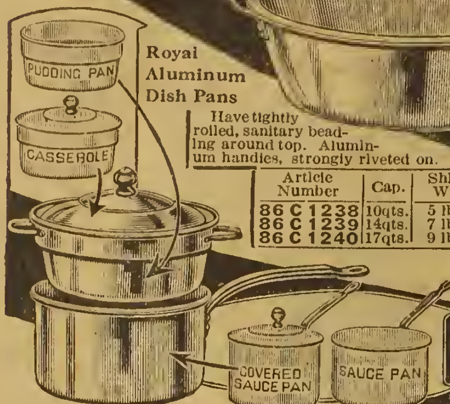
Royal Aluminum Roaster
Self-basting. Body and cover fit snugly. The center of the lower pan is raised and does not touch the oven, which prevents scorching. Length and height, over all, 18¾ by 8¾ inches. Shipping weight, 5 pounds.
486 C 1065 ......$2.75
486 C 1066—Similar to above. Size, over all, 15½ by 8¼ by 6½ inches. Ship. wt., 4 lbs..$2.25

$1.79

Royal Aluminum Heavy Tea or Water Kettles
Welded spout. Ebonized handle an knob.
486 C 1015—Size No. 7. Capacity, 5 quart Shipping weight, 3 pounds. $1.7
486 C 1016—Size No. 8. Capacity, 7 quarts Shipping weight, 4 pounds. $2.2
486 C 1017—Size No. 9. Capacity, 8 quart Shipping weight, 5 pounds. $2.7

Royal Aluminum Dish Pans
Have tightly rolled, sanitary beading around top. Aluminum handles, strongly riveted on.

Article Number	Cap.	Ship. Wt.	Each
86 C 1238	10qts.	5 lbs.	$1.79
86 C 1239	14qts.	7 lbs.	1.98
86 C 1240	17qts.	9 lbs.	2.48



5-in-1 Aluminum Combination
This 3-piece aluminum utensil serves as a double boiler and also makes all the combinations illustrated. You have the convenience of five utensils at the price of one and it only takes the space of one utensil. Capacity of lower vessel, 2¾ quarts; upper, 2 quarts. The side handles on the smaller vessel make it particularly handy. Shipping weight, 2 pounds.
86 C 1254—Set...........................$1.29

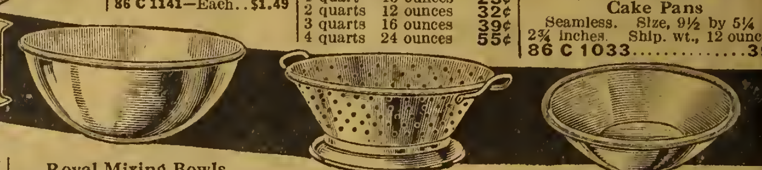
Royal Pitcher
For water or milk. Brightly polished. Capacity, 2¼ quarts. Ship. weight, 1½ pounds.
86 C 1141—Each..$1.49

Royal Pudding Pans

86 C 1025—

Capac.	Ship. Wt.	Each
1 quart	10 ounces	23¢
2 quarts	12 ounces	32¢
3 quarts	16 ounces	39¢
4 quarts	24 ounces	55¢

Royal Oblong Bread or Cake Pans
Seamless. Size, 9½ by 5¼ b 2¾ inches. Ship. wt., 12 ounce
86 C 1033...............39



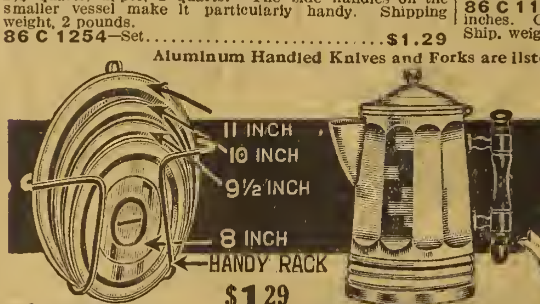
Royal Mixing Bowls
86 C 1190 — Diameter, 9 inches. Capacity, 3 quarts. Ship. weight, 15 ounces...59¢
86 C 1191 — Diameter, 11 inches. Capacity, 4¾ quarts. Ship. weight, 18 ounces...69¢

Royal Colander
Polished finish. Steel wire handles. Diameter at top, 11 inches. Depth, 3½ inches. Ship. wt., 1⅝ lbs.
86 C 1164........98¢

Royal Aluminum Wash Basins
86 C 1046

Diameter	Ship. Wt.	Each
11½ inches	10 ounces	59¢
13 inches	12 ounces	69¢

Aluminum Handled Knives and Forks are listed on Page 525.



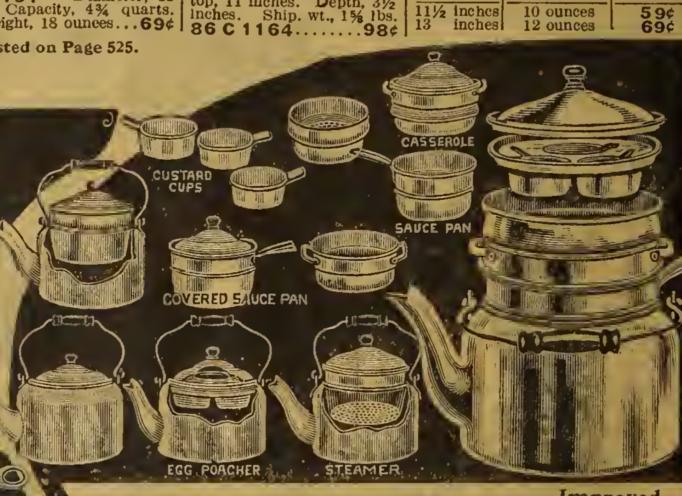
89¢

Royal Aluminum Pot Cover Set
Four heavy aluminum ringed Pot Covers. Set consists of one each, 8, 9½, 10 and 11-inch cover and wire rack. Shipping weight of set, 2 pounds.
86 C 1014—Set ...89¢

$1.29

Royal Aluminum Coffee Pots
86 C 1284

Capacity	Ship. Wt.	Each
1¾ quarts	24 ounces	$1.29
2¾ quarts	26 ounces	1.79
3½ quarts	30 ounces	1.98



Forms the Combinations Shown Above
Consists of the following utensils: 7-quart teakettle; 3-quart sauce pan; 2-quart soup or vegetable strainer; 3 egg-poaching cups and 2-quart casserole. Every one of the useful utensils shown in panel is formed from this set. Entire outfit nests into one compact pan when not in use. This desirable kitchen utensil combination cannot be purchased elsewhere. Ship. wt., of set, 4½ pounds.
486 C 1253—Set..$4.85

Improved Every Woman's 9-Piece Royal Aluminum Set
$4.85

Royal Cooking Fork
Length, 15¼ inches. Hole for hanging. Shipping weight, 8 ounces.
86 C 1278 — Each... 33¢

Royal Water Dipper
86 C 1233—Capacity, 1 pint. Ship. wt., 6 ounces. 24¢
86 C 1234—Capacity, 1 quart. Ship. wt., 8 ounces. Each . 39¢

Royal Soup Ladle
Size; 4 inches. Length, 12 inches. Shipping wt., 6 ounces.
86C 1286—Each.... 24¢

Combination Cooking Fork and Spoon
The two pieces form a handy utensil for handling hot foods or may be used separately. Length of each, 8¾ inches. Shipping weight, 9 ounces.
86 C 1242 ....29¢

Aluminum Skillets
86 C 1060 — Extra heavy. Stamped (not cast)

Size	Ship. Wt.	Each
9 inch	2½ lbs.	$1.59
10 inch	2¾ lbs.	1.79
11 inch	3 lbs.	1.98

Royal Aluminum Frying Pans
86 C 1061

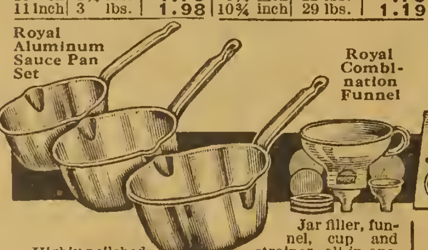
Size	Ship. Wt.	Each
7¾ inch	16 lbs.	$ .39
9¼ inch	22 lbs.	.75
10¾ inch	29 lbs.	1.19

Royal Aluminum Self-Basting Double Roaster
Large Round Pattern
Air ventilator for browning roast. Hinged handles on sides. Diameter, 12 inches. Height, 7¼ inches. Shipping weight, 4 pounds.
86 C 129 ....$1.69

Cast Aluminum 5-Piece Kitchen Set
Soup Ladle, 12½ inch; slotted mixing spoon, 10¼ inch; preserving spoon, 13½ inch; basting spoon, 10¼ inch; egg whip, 10½ inch. Shipping weight, per set, 1 pound.
86 C 1072—Set ....89¢

Royal Hold-Fast Baby Plate
Plate is 7¾ inches in diameter. The tinned wire frame firmly holds it in place on any high chair. Shipping weight, ¾ pound.
86 C 1244....... 79¢

Royal Aluminum Baking Pan
Smooth and seamless. Easy to clean Excellent value. Size, 14½ by 10 by inches. Shipping weight, 2 pounds.
86 C 1062...............$1.19



Royal Aluminum Sauce Pan Set
Highly polished. Seamless. Convenient double lips for pouring; 1½-quart, 2 quart and 3-quart. Ship. wt., 3½ pounds.
86 C 1101—Set.. $1.19

Royal Combination Funnel
Jar filler, funnel, cup and strainer, all in one. Top diameter, 5½ inches. Ship. wt., 9 ounces.
86 C 1059—Set.......... .35¢

Royal Muffin Pans
86 C 1031

Size	Ship. Wt.	Each
6 cups	16 ounces	59¢
9 cups	20 ounces	84¢

Royal Loose Bottom Cake Pans
Diameter, 9 inches. Shipping weight of two, 6 ounces.
86 C 1029—For 2...... ......55¢

Royal Aluminum Cake Pans
Diameter, 9 inches. Straight sides. Ship. weight of two, 9 oz.
86 C 1028—For 2......... 39¢

Royal Aluminum Pie Plates
86 C 1027

Size	Ship. Wt.	For 2
9 inches	8 ounces	39¢
10 inches	10 ounces	47¢

Sizes and capacities on above merchandise may vary slightly from those given

ALUMINUM

$3.79 A Set

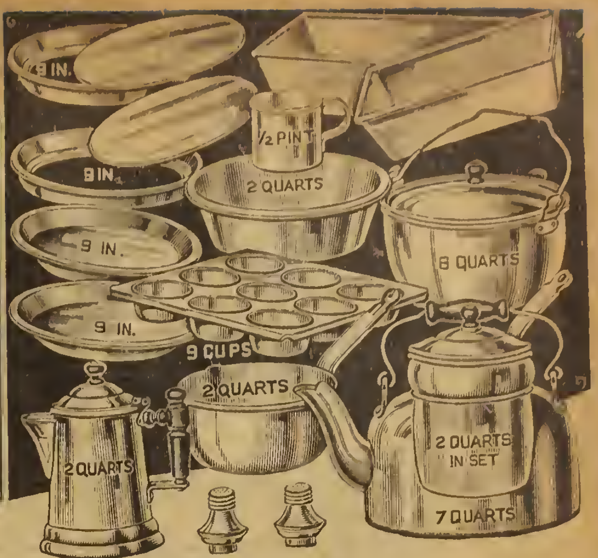
Each piece is absolutely seamless—no cracks or crevices to collect grease or dirt. Nothing to chip or peel—it wears indefinitely.

Combination Bread Raiser, Roaster and Dish Pan

A very practical combination for any kitchen. Provides the convenience of a roaster, bread raiser, oval dish pan, and baking pan, yet contains only two snug fitting parts, saving money and space. Size, 16 by ½ by 7¾ inches over all. Lower part has long handles. Shipping weight, set, 5 lbs.
86 C 1148 .... $3.48

Choice 10-Piece Royal Aluminum Set

This set of Royal Aluminum ware is one of the most popular we ever have offered. Consists of the articles most needed in the kitchen every day. Convex Kettle, 6-quart; Preserving Kettle, 4-quart; Convex Sauce Pan, 2-quarts; Pudding Pan, 2-quart; two 9-inch Pie Plates; Salt and Pepper Shakers; Soup Ladle and Drinking Cup. Shipping weight, per set, 10 pounds.
486 C 1163—Complete set $3.79



15-Piece Royal Aluminum Set

An exceptionally desirable set, as it includes almost all of the utensils necessary for everyday use. Combination Teakettle and Double Boiler, 7-quart. Teakettle with 2-quart inset; 6-quart Convex Kettle; 2-quart Sauce Pan; 2-quart Pudding Pan; two 9-inch Pie Plates; 2-quart Coffee Pot; 2 Bread Pans; One 9-cup Muffin Pan; 2 Cake Pans; one ½-pint Cup, and Salt and Pepper Shakers. Shipping weight, per set, 10 pounds.
486 C 1188 — Complete set. $7.98

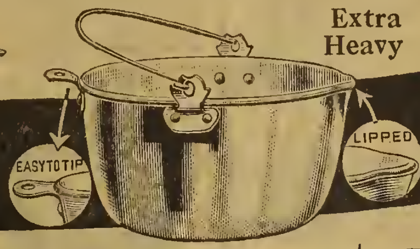
Royal Covered Convex Sauce Pan 98¢

Attractive panel design.
86 C 1282—

Capacity	Ship. Wt.	Each
quarts	1¼ pounds	$ .98
quarts	1½ pounds	1.14
quarts	2 pounds	1.49

Royal Teakettle and Double Boiler Combined $2.69

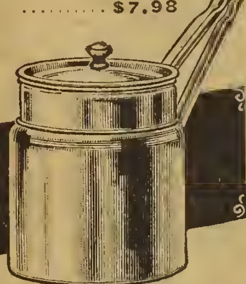
Serves two purposes—sells at the price of one utensil. Tea kettle is size number 8. Capacity 7 quarts. Removable inset or double boiler has a 2-quart capacity. Interchangeable cover fits both vessels. Shipping weight, per set, 5 pounds.
486 C 1018 Complete set $2.69



Royal Preserving Kettles 69¢

86 C 1004—State size.

Capacity	Ship. wt.	Each
4 quarts	1½ pounds	$ .69
6 quarts	2¼ pounds	.89
8 quarts	3 pounds	1.19
12 quarts	3¾ pounds	1.69
16 quarts	4½ pounds	2.48



Royal Double Boilers $1.19

86 C 1006

Capacity	Shipping Wt.	Each
1½ quarts	2 pounds	$1.19
2 quarts	2½ pounds	1.39
3 quarts	3¾ pounds	1.69

Royal Aluminum Covered Convex Kettles $1.10

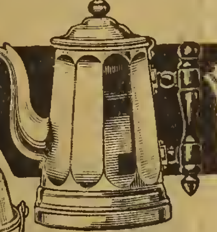
86 C 1283

Capacity	Ship. Wt.	Each
4 quarts	1½ pounds	$1.10
6 quarts	1¾ pounds	1.29
8 quarts	2¼ pounds	1.59
10 quarts	2½ pounds	1.79

Royal Aluminum 5-Piece Set

$2.48 A Set — New Panel Design

Forms Combination Shown Above
Set consists of a 6-quart Kettle and Cover, Perforated and Solid Bottom Pans, 2½ quarts each, and Cake Pan Tube with bottom. Nests into one compact pan. Each piece in this set is of Seamless Royal Aluminum. Smooth and easy to keep clean. Shipping weight, per set, 3 pounds.
486 C 1295— Set. $2.48



$1.48 Royal Aluminum Teapots

86 C 1285
Shipping weights, each, 18 and 22 oz.

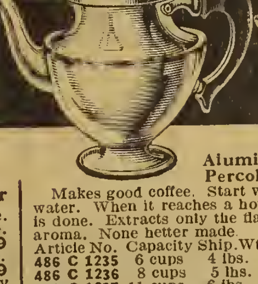
Capacity	Each
3 pints	$1.48
4 pints	1.69

$2.39

Royal Aluminum Percolator

Complete with stove plate.
486 C 1023—8-cup size. Shipping weight, 3 pounds $2.39
486 C 1024—12-cup size. Shipping weight, 3 pounds $2.79
Extra Glass Tops. Will fit any standard percolator. Shipping weight, 5 ounces.
86 C 1084 .... 5¢

$4.98



Aluminum Percolators

Makes good coffee. Start with cold water. When it reaches a boil, coffee is done. Extracts only the flavor and aroma. None better made.

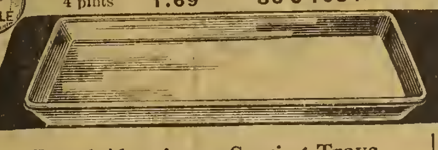
Article No.	Capacity	Ship. Wt.	Each
486 C 1235	6 cups	4 lbs.	$4.98
486 C 1236	8 cups	5 lbs.	5.48
486 C 1237	11 cups	6 lbs.	5.98

Complete with steel plate which prevents scorching of handle.

$1.69

Royal Teapot

Equipped with tea ball which is raised to top when tea is brewed. Capacity, 1¼ quarts. Shipping weight, 4 pounds.
486 C 1175 . $1.69

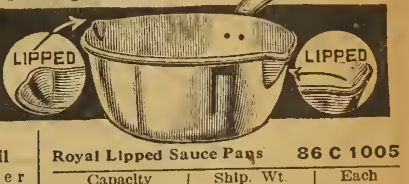


Royal Aluminum Serving Trays

Splendid for Home, Restaurant or Cafeteria use.
86 C 1196—Size, 16½ by 12 inches. Shipping weight, 1⅜ pounds $1.20
86 C 1197—Size, 18 by 14 inches. Shipping weight, 1⅝ pounds $1.48

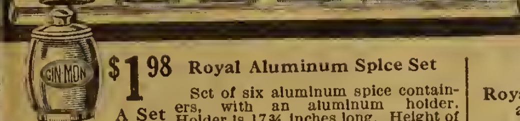
Royal Dinner Pail

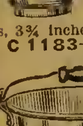
Capacities: Lower vessel, 4½ quarts. Inset, 3 quarts. Diameter, 7⅜ inches. Shipping weight, 2 pounds.
86 C 1069 .. $1.69



Royal Lipped Sauce Pans 86 C 1005

Capacity	Ship. Wt.	Each
1 quart	12 ounces	29¢
1½ quarts	16 ounces	34¢
2 quarts	18 ounces	43¢
3 quarts	22 ounces	59¢
4 quarts	24 ounces	74¢



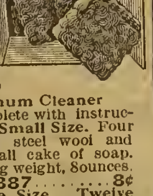


$1.98 A Set Royal Aluminum Spice Set

Set of six aluminum spice containers, with an aluminum holder. Holder is 17¾ inches long. Height of jars, 3¾ inches. Shipping weight, per set, 1½ pounds.
86 C 1183—Complete set $1.98

Royal Crumb Tray and Scraper

Very neatly decorated. Satin finish; 8⅛-inch tray and 10-inch scraper. Shipping weight, 1 pound.
86 C 1120 ..... 79¢

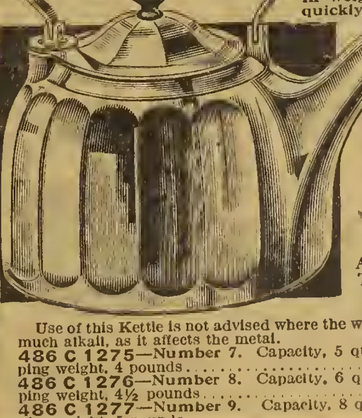


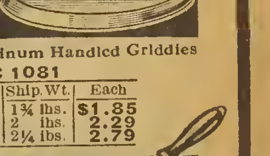
Brillo

Aluminum Cleaner
Complete with instructions. Small Size. Four pads of steel wool and one small cake of soap. Shipping weight, 8 ounces.
86 C 887 .... 8¢
Large Size. Twelve pads of steel wool and one large cake of soap. Shipping weight, 1 pound.
86 C 888 .... 23¢

Cast Aluminum

Aluminum of the finest quality, smoothly cast in one solid piece and highly polished. No joints, seams or folds. Extremely durable, yet light in weight. Heats quickly.

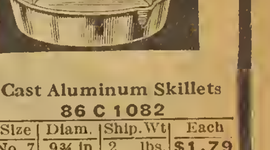




Cast Aluminum Handled Griddles

86 C 1081

Size	Diam.	Ship. Wt.	Each
No. 8	9 in.	1¾ lbs.	$1.85
No. 9	10⅜ in.	2 lbs.	2.29
No. 10	11 in.	2¼ lbs.	2.79



Cast Aluminum Teakettles

Use of this Kettle is not advised where the water contains much alkali, as it affects the metal.
486 C 1275—Number 7. Capacity, 5 quarts. Shipping weight, 4 pounds $3.98
486 C 1276—Number 8. Capacity, 6 quarts. Shipping weight, 4½ pounds $4.48
486 C 1277—Number 9. Capacity, 8 quarts. Shipping weight, 5 pounds $4.98

Cast Aluminum Skillets

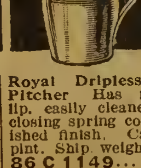
86 C 1082

Size	Diam.	Ship. Wt.	Each
No. 7	9¾ in.	2 lbs.	$1.79
No. 8	10½ in.	2¼ lbs.	2.10
No. 9	11½ in.	2½ lbs.	2.48

Royal Milk Pails

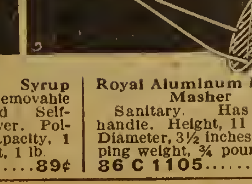
86 C 1045

Cap.	Ship. Wt.	Each
8 qts.	1½ lbs.	$1.29
10 qts.	1¾ lbs.	1.49
12 qts.	2 lbs.	1.69



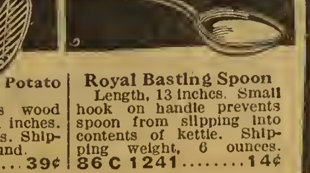
Royal Dripless Syrup Pitcher

Has removable lip, easily cleaned. Self-closing spring cover. Polished finish. Capacity, 1 pint. Ship. weight, 1 lb.
86 C 1149 .... 89¢



Royal Aluminum Potato Masher

Sanitary. Has wood handle. Height, 11 inches. Diameter, 3½ inches. Shipping weight, ¾ pound.
86 C 1105 .... 39¢



Royal Basting Spoon

Length, 13 inches. Small hook on handle prevents spoon from slipping into contents of kettle. Shipping weight, 6 ounces.
86 C 1241 .... 14¢

Sizes and capacities on above merchandise may vary slightly from those given

DURO DOUBLE COATED ENAMELED WARE

Duro Ware has two distinct coats of gray enamel. Ordinary enamelware has but one coat. Duro Ware will stand long and hard service. Those who have given Duro Ware a trial, are not satisfied with any other gray enameled ware.

Duro Mixing Bowls
86 C 604

Diam. In.	Ship. Wt. Lbs.	Each
8½	1½	29¢
10¼	2	39¢

Duro Pudding Pans
86 C 605

Cap. Qts.	Ship. Wt. Lbs.	Price Each
1	1¼	19¢
1¾	1¾	24¢
3	2	29¢
4	2¼	32¢

$2.35 A Set

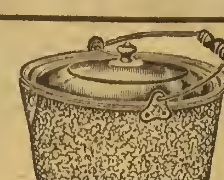
6-Piece Duro Ware Assortment
Set contains one 4-quart Convex Kettle; one 1½-quart Double Boiler; one 2¾-quart Pudding Pan; one 2¼-quart Sauce Pan and two 9-inch Pie Plates. Shipping weight, per set, 9 pounds.
486 C 655—Complete set..........$2.35

79¢

Duro Teakettles
86 C 615
Size No. 7. Holds 4¾ quarts. Shipping weight, 4 pounds. 79¢
Size No. 8. Holds 6 quarts. Shipping weight, 4¼ pounds. 98¢
Size No. 9. Holds 7 quarts. Ship. wt., 4½ pounds....$1.19

Duro Colanders

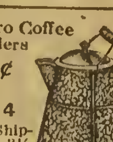
Diameter at top, 11½ inches. Shipping weight, 2 pounds.
86 C 624
48¢



Duro Maslin or Strainer Kettles
86 C 618

Capacity	Ship. Wt.	Each
5 quarts	3 pounds	55¢
6 quarts	3¼ pounds	59¢
7 quarts	3½ pounds	69¢
9½ quarts	4½ pounds	89¢

Duro Coffee Boilers

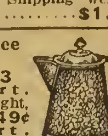


89¢
86 C 614
5-quart. Shipping weight, 3½ pounds.....89¢
6¾-quart. Shipping weight, 4 pounds................98¢
9-quart. Shipping weight, 4½ pounds...........$1.29

Duro Water Pails
86 C 647

Cap. Qts.	Ship. Wt. Lbs.	Each
9¾	4	$ .79
11¾	4½	.98
13¾	4¾	1.19

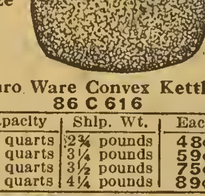
Duro Coffee Pots
86 C 613



2-quart. Shipping weight, 2¼ pounds 49¢
3¼-quart. Shipping weight, 2¾ pounds. 59¢

Duro Wash Basins
86 C 650—Made seamless.

Diam. In.	Cap. Qts.	Ship. Wt. Lbs.	Each
11½	2½	1½	29¢
12¼	3¼	2	32¢
13¾	5½	2¼	49¢

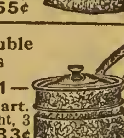


48¢
4-Qt. Size

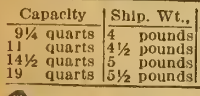
Duro Ware Convex Kettles
86 C 616

Capacity	Ship. Wt.	Each
4 quarts	2¾ pounds	48¢
5½ quarts	3¼ pounds	59¢
8 quarts	3½ pounds	75¢
9¾ quarts	4¼ pounds	89¢

Duro Teapots



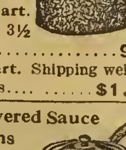
86 C 612—Cap., 1 quart. Ship. wt., 2 lbs. ......49¢
Cap. 2-quart. Ship. wt., 2¼ pounds...55¢



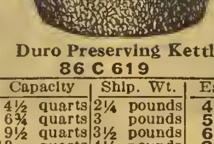
Duro Handled Pans
86 C 629

Capacity	Ship. Wt.,	Each
9¼ quarts	4 pounds	$ .69
11 quarts	4½ pounds	.89
14½ quarts	5 pounds	.98
19 quarts	5½ pounds	1.15

Duro Double Boilers

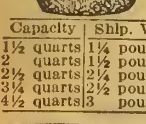


86 C 611—1½ quart. Ship. weight, 3 pounds...83¢
2½ quart. Ship. wt, 3½ pounds................98¢
3½-quart. Shipping weight, 4½ pounds.... ......$1.15



Duro Preserving Kettles
86 C 619

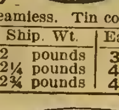
Capacity	Ship. Wt.	Each
4½ quarts	2¼ pounds	40¢
6¾ quarts	3 pounds	54¢
9½ quarts	3½ pounds	69¢
13 quarts	4¼ pounds	89¢



Duro Lipped Sauce Pans
86 C 621

Capacity	Ship. Wt.	Each
1½ quarts	1¼ pounds	24¢
2 quarts	1½ pounds	29¢
2½ quarts	2¼ pounds	32¢
3¼ quarts	2½ pounds	35¢
4½ quarts	3 pounds	39¢

Duro Covered Sauce Pans



35¢
86 C 620
Made seamless. Tin cover.

Capacity	Ship. Wt.	Each
2 quarts	2 pounds	35¢
3 quarts	2¼ pounds	40¢
4 quarts	2¾ pounds	49¢

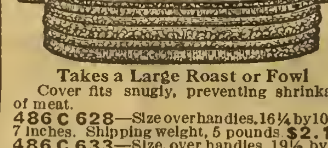
13¢

Duro Cups
Seamless. Top diameter, 4¼ inches. Capacity, ⅝ pint. Ship. weight, each, 8 ounces.
86 C 630—Each..$ .13
Per dozen........ 1.35

13¢

Duro Saucers
To match 86 C 630 cups. Diameter, 6¼ inches. Shipping weight, each 6 ounces.
86 C 631—Each..$ .13
Per dozen........ 1.35

Duro Self Basting Double Roaster



Takes a Large Roast or Fowl
Cover fits snugly, preventing shrinkage of meat.
486 C 628—Size over handles, 16¼ by 10 by 7 inches. Shipping weight, 5 pounds. $2.19
486 C 633—Size, over handles, 19½ by 12 by 8 inches. Shipping weight, 6¼ pounds $2.50

18¢

Duro Pie Plates
Size, 9 inches in diameter. Shipping weight, 16 ounces.
86 C 607.....18¢

19¢

Duro Cake Pans
Size, 9 by 1 inches. Shipping weight 16 ounces.
86 C 608.....19¢

Genuine SWEDISH WHITE ENAMELED WARE

Mixing Bowls
50¢
86 C 808

Diameter	Ship. Wt.	Each
8 inches	1 pound	50¢
10¼ inches	2 pounds	85¢

Dinner Plates
24¢
86 C 812

Size	Ship. Wt.	Each
7½ inches	6 ounces	24¢
8¾ inches	8 ounces	27¢
9½ inches	11 ounces	32¢

Soup Ladle
Diameter of bowl, 3½ inches. Shipping weight, 12 ounces
86 C 806...............25¢

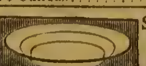
Cups
86 C 831

Diam. In.	Ship. Wt.	Each
3⅛	5 oz.	25¢
4	10oz.	35¢

Saucers
Shipping weights, 4 to 6 ounces.
86 C 832

Size	Each
4⅝ inches	18¢
5⅝ inches	23¢

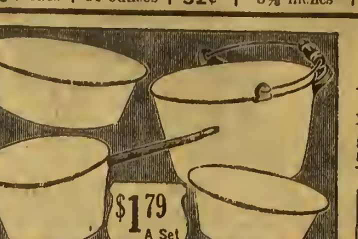
Seamless Mugs
Size, 2¾ inches. Half-pint capacity. Shipping weight, 8 ounces.
86 C 835..............23¢
86 C 836—Size, 3⅛ inches; ¾-pint capacity. Shipping weight, 10 ounces................29¢



Soup Plates
Diameter, 8¾ inches. Shipping weight, 8 ounces.
86 C 814..............28¢

Cereal Bowls
86 C 816

Diam. In.	Ship. Wt.	Each
4⅜	6 oz.	24¢
5½	8 oz.	29¢



$1.79 A Set

4-Piece White Enamel Ware Set
Consists of a 6 quart deep Preserving Kettle, 3-quart deep Sauce Pan, one 2-quart Pudding Pan and one 3-quart Pudding Pan. Shipping weight, per set, 9 pounds.
486 C 837—Complete set.........$1.79

White Enamel Ware

Blue rim and handles.

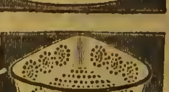
Article Number	Cap. Qts.	Ship. Wt.	Each
86 C 838	12	5 lbs.	$1.48
86 C 839	15	6 lbs.	1.89

Dish Pan

14¢

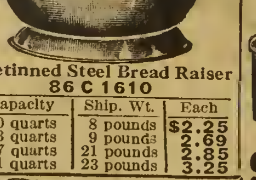
Tea Strainer
Diameter, 4 inches. Shipping weight, 8 ounces.
86 C 840 14¢

Sink Strainer



Fits in a corner. Size, 7¼ by 7¼ by 10 inches; 2¼ inches deep. Shipping weight, each, 2 pounds.
86 C 841..............59¢

Heavy Retinned Stamped Steel Cooking Utensils



Retinned Steel Bread Raiser
86 C 1610

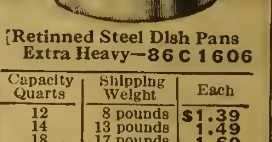
Capacity	Ship. Wt.	Each
10 quarts	8 pounds	$2.25
13 quarts	9 pounds	2.69
17 quarts	21 pounds	2.85
21 quarts	23 pounds	3.25

These utensils are stamped from heavy sheet steel and have a heavy coating of pure tin. They are durable and will not rust or corrode. This ware is also known as "Old Style Tinware".

Sizes 4 and 6 Quarts

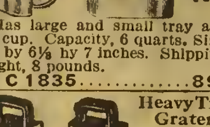
98¢ A Set

Retinned Steel Preserving Kettles
A set of two tinned steel kettles in the sizes you use daily: One 4-quart and one 6-quart. Shipping weight per set, 8 pounds.
86 C 1611—Per set .....98¢



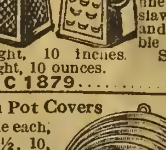
Retinned Steel Dish Pans
Extra Heavy—86 C 1606

Capacity Quarts	Shipping Weight	Each
12	8 pounds	$1.39
14	13 pounds	1.49
18	17 pounds	1.69



89¢
Heavy Tin Dinner Pail
Has large and small tray and top cup. Capacity, 6 quarts. Size, 9½ by 6⅛ by 7 inches. Shipping weight, 8 pounds.
86 C 1835..............89¢

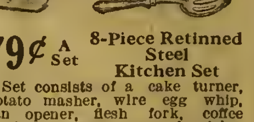
45¢
Extra Heavy Tin Quart Measure
86 C 1751—Capacity, 1 quart. Shipping weight, 10 ounces..........45¢
Standard Grade
86 C 1752 1-quart size. Shipping weight, 8 ounces...10¢
86 C 1753 4-quart size. Shipping weight, 16 ounces ..29¢



Heavy Tin Grater and Slicer
Has 4 sides: Coarse and fine grater, slaw cutters and vegetable slicer. Height, 10 inches. Shipping weight, 10 ounces.
86 C 1879..............12¢

98¢ A Set

Retinned Steel Sauce Pans
The three handiest sizes for the average kitchen. Shipping weight, per set, 5 pounds.
86 C 1612—Per set......98¢



79¢ A Set

8-Piece Retinned Steel Kitchen Set
Set consists of a cake turner, potato masher, wire egg whip, can opener, flesh fork, coffee strainer, soap saver and mixing spoon. Ship. wt., per set, 2 pounds.
86 C 1824—Per set.......79¢

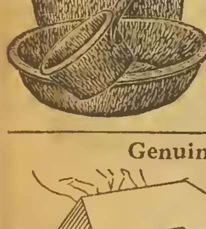
Tin Pot Covers

One each, 9, 9½, 10, 10½, 11, 11½ -inch covers and wire rack. Shipping weight, per set, 2½ lbs.
86 C 1711—Per set.....39¢

Potato Masher
14¢
Retinned steel. Length 9 inches. Diameter, 2¾ inches. Shipping weight, ¾ pounds.
86 C 1812..............14¢

Noodle Cutter
20¢
Has 9 steel blades. Cuts fine noodles. Length, 5⅜ inches. Enameled wood handle. Shipping weight, 4 ounces.
86 C 1792..............20¢

Windsor Gray Enamel Water Set
$1.19

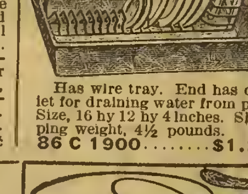


Consists of a 10-quart Pail, 12½-inch Basin and 1-pint Dipper. Shipping weight, per set, 4½ lbs.
486 C 670—Set
$1.19

Fruit Press and Potato Ricer
Enameled Frame
39¢

Removable retinned steel cup. Diameter of cup, 3½ inches.
Shipping weight, 2 pounds.
86 C 1964........39¢

Galvanized Iron Dish Drainer
$1.29



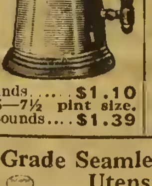
Has wire tray. End has outlet for draining water from pan. Size, 16 by 12 by 4 inches. Shipping weight, 4½ pounds.
86 C 1900........$1.29

Nickel Plated Copper Ware—Tinned Inside

Teapots

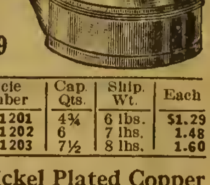
86 C 1216 Capacity, 2½ pints. Shipping weight, 2 pounds ....98¢
86 C 1217—Capacity, 3½ pints. Shipping weight, 2½ pounds. $1.14
86 C 1218—Capacity, 4½ pints. Shipping weight, 3 pounds.........$1.29

Coffee Pots



86 C 1213 3½ pint size. Shipping weight, 3 pounds. ...99¢
86 C 1214 4½ pint size. Shipping weight, 3 pounds.....$1.10
86 C 1215—7½ pint size. Ship. wt., 4 pounds....$1.39

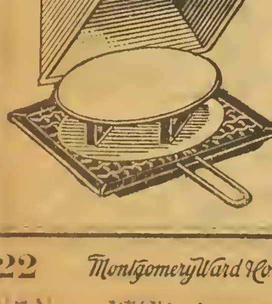
Teakettles



$1.29

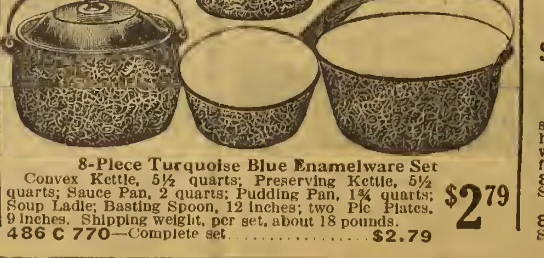
Article Number	Cap. Qts.	Ship. Wt.	Each
486 C 1201	4¾	6 lbs.	$1.29
486 C 1202	6	7 lbs.	1.48
486 C 1203	7½	8 lbs.	1.60

Genuine Androck Oven



Saves Fuel—Saves Time
Cooks, Bakes or Roasts Without Heating Kitchen
79¢
Use on a Single Burner of Any Stove

Bakes pies, potatoes, bread; roasts, fries or boils meat. Consists of the following parts: (1) The well known Androck Toaster serves as a bottom. (2) Sheet metal disc, 8½ inches in diameter, for heating flat irons. (3) Asbestos lined stand, 8 inches in diameter, for baking. (4) The oven top, 5⅜ inches high, with damper for regulating heat. Ship. wt., 5 lbs.
86 C 1465..........79¢



8-Piece Turquoise Blue Enamelware Set
Convex Kettle, 5½ quarts; Preserving Kettle, 5½ quarts; Sauce Pan, 2 quarts; Pudding Pan, 1¾ quarts; Soup Ladle; Basting Spoon, 12 inches; two Pie Plates, 9 inches. Shipping weight, per set, about 18 pounds.
486 C 770—Complete set..................$2.79
$2.79

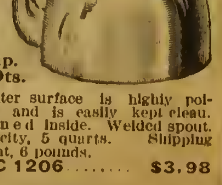
Extra High Grade Seamless Nickel Plated Copper Utensils

Percolator

$3.98

Welded spout. Wood handle with metal shield to protect it from the heat. Panel design.
86 C 1209—6-cup size. Shipping weight, 3 pounds. $3.98
86 C 1210—9-cup size. Shipping weight, 4 pounds..$4.48

Tea or Water Kettle



Cap. 5 Qts.

Outer surface is highly polished and is easily kept clean. Tinned inside. Welded spout. Capacity, 5 quarts. Shipping weight, 6 pounds.
86 C 1206 .... $3.98

Sizes and capacities on the above merchandise may vary slightly from those given

Smooth, Polished Cast Iron Ware

Avoid Scalding Your Hands with Escaping Steam

Use Our Genuine Griswold Cast Iron Safety Kettle

Due to the improved safety cover, hot contents may be poured from this Kettle without any danger of scalding the hands. To be used for all kinds of cooking or stewing. By inserting perforated tin plate, kettle is converted into steamer for dumplings and puddings. Capacity, 8 quarts. Shipping weight, 10 pounds.
86 C 1451....... **$2.48**

74¢

Cast Iron Skillets

86 C 1433—Polished inside.

Size No.	Diam.	Ship. Weight	Each
8	10¼ in.	4½ lbs.	$ .74
9	11¼ in.	5½ lbs.	.98
11	12½ in.	6½ lbs.	1.48

Extra High Grade Cast Iron Sugar, Wash or Butchering Kettles

For making soap, cooking feed, rendering lard, butchering, etc. Wrought iron handle. Shipping weights, 62, 69, 86, 108, 145 pounds.

Article Number	Holds	Price Each
186 C 2334	18 gal.	$5.75
186 C 2335	21 gal.	6.48
186 C 2336	25 gal.	7.48
186 C 2337	30 gal.	8.50
186 C 2338	40 gal.	13.95

69¢

Cast Iron Griddle

86 C 1435—Smoothly polished.

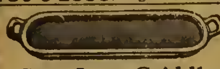
Size No.	Diameter	Ship. Weight	Each
8	9⅛ in.	3 lbs.	69¢
9	10⅛ in.	4 lbs.	77¢
10	11¼ in.	5 lbs.	98¢

Cast Iron Stove Kettles

$1.89

Flat bottom. Smoothly polished inside.

Article Number	Size No.	Cap.	Ship. Wt.	Each
486C1442	8	7 qts.	9 lbs.	$1.89
486C1443	9	9 qts.	10 lbs.	2.48



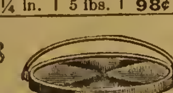
Cast Iron Griddle

Besides being one of the most convenient pan cake griddles, it may be used in heating flat irons.

86 C 1436

Size No.	Size	Ship. Wt.	Each
8	21 x 9³⁄₁₆ in.	7 lbs.	$1.29
9	22¾ x 10³⁄₁₆ in.	9 lbs.	1.69

$1.48



Cast Iron Bailed Griddle

86 C 1452 — Smoothly polished top.

Diameter	Ship. Weight	Each
14 inches	7 lbs.	$1.48
16 inches	9 lbs.	1.79

Genuine Griswold American Waffle Iron

$1.39

Extra Heavy

The base plate has a deep rim to catch all overflow. By means of the ball joint, the iron may be turned without lifting it from the frame. Handles are always cool.

Article Number	Size No.	Ship. Weight	Each
486 C 1453	8	11 lbs.	$1.39
486 C 1454	9	13 lbs.	1.59

Brillo
The Much Advertised Cleanser For All Kitchen Utensils

86 C 887—Small Size. Four pads of steel wool and one small cake of soap. Shipping weight, 8 ounces......... 8¢
86 C 888—Large Size. Twelve pads of steel wool and one large cake of soap. Shipping weight, 1 pound..... **23¢**

Cast Iron Dutch Oven

$2.48

Cap. 6 Qts.

This is the Kettle used for making old fashioned pot roasts. Steam-tight cover. May be used for roasting, boiling, baking or frying. Smoothly finished inside.

Article Number	Cap.	Ship. Weight	Each
86 C 1458	6 qts.	12 lbs.	$2.48
86 C 1459	8 qts.	14 lbs.	2.98

Pot and Pan Cleaner

Has movable metal pegs for scraping burnt matter from pots and pans. Length, 3¾ inches. Black enameled wood handle. Shipping weight, 8 ounces.
86 C 1886...... **10¢**

Enamel Cast Iron Ware

Durable cast iron body, covered with a thick coat of light blue enamel on the outside, white inside.

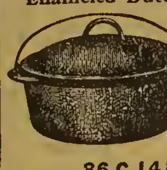
Enameled Stove Kettles

$1.19

86 C 1401

Capacity	Ship. Wt.	Each
4 quarts	7 lbs.	$1.19
6 quarts	9 lbs.	1.40
8 quarts	11 lbs.	1.79
12 quarts	13 lbs.	2.40

Enameled Dutch Oven



$2.85

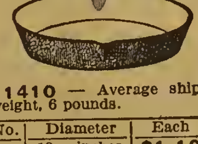
4 Qts.

86 C 1411

Cap.	Ship. Wt.	Each
4 qts.	10 lbs.	$2.85
6 qts.	12 lbs.	3.35
8 qts.	14 lbs.	3.98

Enameled Cast Iron Spiders

$1.19



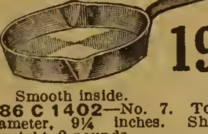
86 C 1410 — Average shipping weight, 6 pounds.

Size No.	Diameter	Each
8	10 inches	$1.19
9	11¼ inches	1.39
10	12 inches	1.50

Sheet Steel Roaster

Top is beaded so that condensed moisture drips over meat giving perfect continuous basting. Size, 18 by 12 by 8 inches. Will fit any oven 13 by 19 inches. Shipping weight, 5½ pounds.
86 C 1424....... **$1.25**

Seamless Steel Skillets



19¢

Smooth inside.
86 C 1402—No. 7. Top diameter, 9¼ inches. Shipping weight, 2 pounds.......... **19¢**
86 C 1403—No. 8. Top diameter, 10¼ inches. Shipping weight, 2½ pounds......... **24¢**
86 C 1404—No. 9. Top diameter, 11¼ inches. Shipping weight, 3 pounds........... **29¢**

44¢

Extra Heavy Steel Spider

86 C 1428—Polished.

Bottom Diam., In.	Shipping Weight	Price Each
8	2½ pounds	44¢
9	3½ pounds	50¢
10	4½ pounds	60¢
11	5 pounds	69¢

Solid Copper Kettle

$3.19

Cover fits snugly. For canning vegetables, boiling hams and many other purposes. Diameter, 11 inches. Shipping weight, 7 pounds.
486 C 2293....... **$3.19**

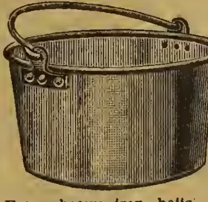
Sheet Iron Frying Pans

Cool Handle

86 C 1426—Polished.

Top	Shipping Weight	Each
8⅜ inches	13 oz.	14¢
9½ inches	17 oz.	19¢
12 inches	25 oz.	24¢

Copper Kettles



Extra heavy iron bails, ears and rim.
286 C 2391
Shipped from Factory in Ohio.

Capacity	Ship. Wt.	Each
12 gallons	33 pounds	$8.98
16 gallons	45 pounds	12.95
20 gallons	50 pounds	14.98
25 gallons	55 pounds	17.98
36 gallons	90 pounds	22.90

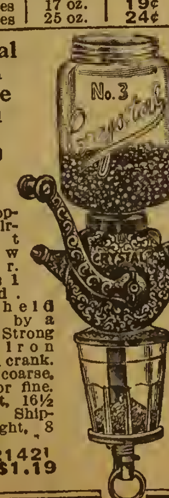
Arcade Canister Mill

98¢

Grinds coarse, medium or fine. Holds one pound. Wood case. Shipping weight, 4½ pounds.
86 C 2141.......... **98¢**

Crystal Wall Coffee Mill

$1.19



Glass hopper has airtight screw cover. Holds 1 pound. Tumbler held in place by a spring. Strong enameled iron frame and crank. Grinds coarse, medium or fine. Height, 16½ inches. Shipping weight, 8 pounds.
486 C 2142
.......**$1.19**

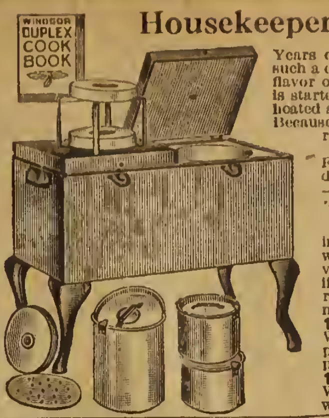
Apple and Peach Parer

Takes off a very thin paring. Cast iron with steel blades. Shipping wt., 4 lbs.

$1.55

86C2301
...**$1.55**

Windsor Duplex Fireless Stoves



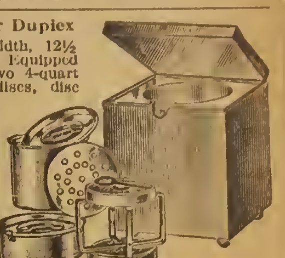
Housekeepers:

You need no longer spend your afternoons in the kitchen beside a hot stove preparing your evening meal. The Windsor Duplex will do this for you. Years of study and experimenting have perfected the Windsor to such a degree that it roasts, boils, or bakes; keeps in all the delicious flavor of your food; requires absolutely no watching. The cooking is started over the fire, the food then placed in the Windsor with the heated soapstone discs and completely forgotten until time to eat it. Because of the Windsor's patented steam vents, pies, cakes and roasts are deliciously browned.

Strongly made of sheet metal lined with aluminum. Equipped with light rolling casters. Book of directions and delicious recipes included with each cooker.

The Double Windsor Duplex

Length, 28 inches; width, 12½ inches; height, 18 inches. Equipped with one 10 quart and two 4-quart vessels; 3 soapstone discs, disc lifter, folding baking rack and aluminum mat. Not mailable.
186 C 1471—Without legs. Shipping weight, 126 pounds.... **$21.95**
186 C 1472—With legs. Shipping wt., 160 lbs.. **$24.95**



The Single Windsor Duplex. Furnished with one 8-quart and one 4-quart aluminum vessel; two baking and roasting discs; disc lifter, folding baking rack and aluminum mat.
186 C 1473—Shipping weight, 60 pounds **$14.98**

Tin Cake Pan

3 for 19¢

Straight sides. Size 9 by ¾ inches. Shipping weight of three, 12 ounces.
86 C 1505—3 for....... **19¢**

Tin Pie Plates

3 for 14¢

86 C 1524—Size, 9⅛ by 1 inch. Shipping weight of three, 12 ounces. 3 for.................. **14¢**
86 C 1525 — Size, 10 by 1¹⁄₁₆ inches. Shipping weight of three, 15 ounces. 3 for.................. **19¢**

9¢

7x10 Inch

Sheet Steel Baking Pan

86 C 1425—

Size	Shipping Weight	Each
7 x10 in.	1 lbs.	9¢
7 x14 in.	1¼ lbs.	12¢
8 x17 in.	1¾ lbs.	15¢
10 x16 in.	2¼ lbs.	19¢
13¾x17 in.	2½ lbs.	24¢
17⅞x19 in.	3 lbs.	29¢

35¢

Clear Glass Rolling Pin

It is hollow and may be filled with cold water or cracked ice. Length, 15½ inches. Shipping weight, 3 pounds.
86 C 1519............ **35¢**

21¢

Wooden Rolling Pin

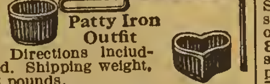
Polished hard maple. Revolving handles. Length, about 19 inches. Shipping weight, 2 pounds.
86 C 1520............ **21¢**

Sanitary Tin Bread Pans

3 for 32¢

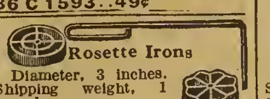
86 C 1515—Extra heavy. Rounded corners. Shipping weights, 12 to 18 ounces.

Holds	Sizes, Inches	Price
1 lbs.	4½x 8¼x2¾	3 for 32¢
1½ lbs.	5½x 9½x2¾	3 for 40¢
2 lbs.	6¼x10¼x2¾	3 for 49¢



Patty Iron Outfit

Directions included. Shipping weight, 2 pounds.
86 C 1593..**49¢**



Rosette Irons

Diameter, 3 inches. Shipping weight, 1 pound.
86 C 1594—
Per set......... **49¢**

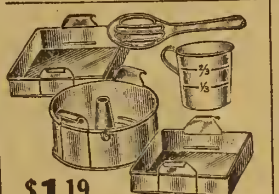
Majestic Bread Maker

Small Size Kneads From 2 to 6 Loaves

$2.60

The easiest, quickest and surest way of preparing perfect bread. The Majestic entirely does away with long and tiresome hand kneading. Two to ten loaves are thoroughly kneaded in about three minutes. The work is done with scientific accuracy, thoroughly and evenly, producing bread that is firm, light, white and free from unbroken starch cells.

Made of heavy charcoal tin, polished. Kneader and handle are made of steel.
486 C 1529—10-quart size. Capacity, 2 to 6 loaves. Shipping weight, 9 pounds....... **$2.60**
486 C 1530—16-quart size. Capacity, 4 to 10 loaves. Shipping weight, 13 pounds **$3.48**



$1.19

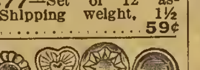
Genuine Van Deusen Baking Set

Specially constructed for baking the famous Sunshine or Sponge cakes. Set consists of 1 round tubed loaf mold, 8 inches diameter; 2 layer molds, 7½ inches square; egg whip; measuring cup and a copy of Scientific cake Rules and Recipes. Shipping weight, 4 pounds.
86 C 1578—Set...... **$1.19**

Tin Cake Cutters

86 C 1576—Set of 4 assorted. Shipping weight, 8 ounces.................. **25¢**
86 C 1577—Set of 12 assorted. Shipping weight, 1½ pounds.................. **59¢**

17¢ Doz.



Tin Patty Pans

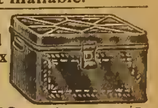
Average diameter, 3 inches. Shipping weight, per dozen, 6 ounces.
86 C 1560—
Per dozen, assorted .... **17¢**

Black Japanned Flour Boxes

Heavy tin. Keeps the flour free from dust and dampness.
486 C 1554—Capacity, 50 pounds. Height, 19 inches Shipping weight, 10 pounds. **$1.49**
186 C 1555—Capacity, 100 pounds. Height, 26 inches. Shipping weight, 13 pounds **$2.15**
Not mailable.

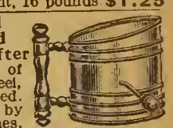
Black Japanned Bread Box

$1.10



86 C 1558 — Average size 15¼ by 10 by 9¼ inches. Shipping weight, 15 pounds **$1.10**
86 C 1559 — Average size, 18 by 12 by 11½ inches. Shipping weight, 16 pounds **$1.25**

Nickel Plated Flour Sifter



Made of sheet steel, nickel plated. Size, 6½ by 5⅛ inches. Shipping weight, 1 pound.
86 C 1539.......... **45¢**

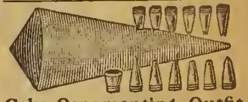
Ideal Bread Toaster

Toasts quickly and uniformly. Can be taken apart completely for cleaning. Shipping weight, 1 pound.
86 C 1996.......... **19¢**

Comfort Bread and Cake Cabinet

FOLDED

Bread and cake are kept fresh and moist in this galvanized steel Cabinet. Outside has aluminum finish. Two ventilators, two removable shelves. May be taken apart completely for cleaning. Size, 20 inches high, 13⅜ inches wide, 11 inches deep. Shipping weight, 12 pounds.
86 C 1556....... **$2.25**



Cake Ornamenting Outfit

Consists of rubber bag, tinned bag screw, 12 assorted screw tubes and book of designs and recipes. Shipping weight, 12 ounces.
86 C 1590— Set...**$1.79**

Roberts Lightning Mixer

Beats the whites of eggs to a stiff froth in 30 seconds; whips cream or churns butter in one to three minutes. Glass jar with nickel plated dasher. Shipping weights, 3 and 5 pounds.
86 C 1898—Pint size....... **79¢**
86 C 1899—Quart size............... **98¢**

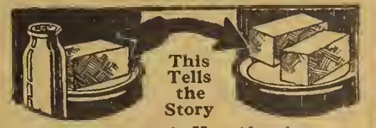
Speedy Whip, Complete with Bowl

Whips cream or eggs in one minute. Nickel plated. Complete with 1 quart earthenware mixing bowl.

Ship. weight, 2½ pounds.

84¢

86C1860
84¢



This Tells the Story

Butter Churn 99¢ Has Aluminum Dasher

It makes two pounds of delicious milk-charged butter out of one, by adding pint of milk and churning the mixture for about three minutes.

Gears Mesh Easily

Article Number	Capacity	Ship. Wt.	Each
486 C 1690	1 quart	6 pounds	$ .99
486 C 1691	2 quarts	7 pounds	1.25
486 C 1692	3 quarts	8 pounds	1.49
486 C 1693	4 quarts	9 pounds	1.89

Bilt-Rite Egg Beater

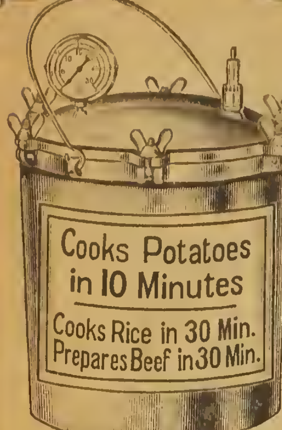
34¢

Beats very rapidly. The one-piece handle is keyed into the drive wheel—no rivets to loosen up and cause trouble. The entire Beater is heavily retinned throughout. Shipping weight, 12 ounces.
86 C 1999................ **34¢**

Sizes and capacities on above merchandise may vary slightly from those given

Our Steam Pressure Cooker

COOKS AN ENTIRE MEAL IN ⅓ THE USUAL TIME



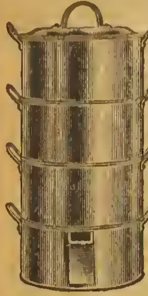
By pressure Cookery, a most remarkable achievement in cooking economy, hundreds of housekeepers are cutting down their fuel bills and saving many hours each week in the preparation of their meals. With a Windsor Pressure Cooker you start dinner at 11:30 and serve it at noon. You can cook a ham in 50 minutes, pork and beans in 40 minutes, and any vegetable in from 10 to 15 minutes, at the same time **reducing your fuel bill two-thirds.** Thirty minutes cooks a fowl to a tender consistency. Besides, the steam pressure cooker actually cooks food more thoroughly. A quick, economical and easy way to cook the cheaper cuts of meat. All the savory flavor is retained. Cast aluminum rack and vessels enable you to prepare several dishes at one time, none of them absorbing the taste or odors of the others. Used with equally good results over gas, oil, coal, or electric stoves. Our strong guarantee backs every Windsor Pressure Cooker.

The pressure cooker is the ideal method for One-Period Cold Pack Canning—see Farmers' Bulletin Number 839, U. S. Department Agriculture.

Construction

Made of heavy polished, cast aluminum. Steam gauge shows exact pressure of steam. Safety valve releases steam automatically should pressure exceed 20 pounds. **All but the largest size are fitted with basket and pans.** Various pressures are regulated by steam valve at top.

Article No.	Capac.	Diam.	Depth	Holds jars	Ship. Wt.	Price
486 C 1475	10 qts.	9 in.	9⅛ in.	4 pt. or 3 qt	13 lbs.	$14.45
486 C 1476	14 qts.	10 in.	10½ in.	5 pt. or 4 qt.	16 lbs.	17.98
486 C 1477	18 qts.	11 in.	11½ in.	12 pt. or 4 qt.	20 lbs.	21.48
486 C 1478	28 qts.	13 in.	13 in.	20 pt. or 7 qt.	28 lbs.	24.98



Steam Cooker

$1.79

To Be Used on a Single Burner of any Stove

Various foods may be prepared at one time without any of them absorbing the flavor or odor of the others. Has one 5-quart and three 4-quart compartments. Made of high grade charcoal tin. Diameter, 9 inches; height, 17 inches. Shipping weight, 7 pounds.

486 C 1413.......$1.79

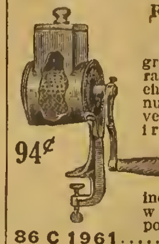
$2.79

Windsor Ice Cream Freezer

Freezes very rapidly because of the repeating dasher. Tubs are waterproof. The cans are made of high grade charcoal tin plate. All metal parts that come in contact with the cream are covered with pure block tin.

186 C 2148

Size	Ship. Wt.	Price
2 quarts	10 pounds	$2.79
3 quarts	13 pounds	3.39
4 quarts	14 pounds	3.90
6 quarts	21 pounds	4.95
8 quarts	24 pounds	6.79
10 quarts	26 pounds	8.89



Rotary Food Grater

94¢

Excellent for grating horse-radish, cheese, chocolate, cocoanut, etc. Grates very fine. Cast iron frame. Drum made of tin. Diameter 4 inches. Shipping weight, 4½ pounds.

86 C 1961............94¢

Slicing Board

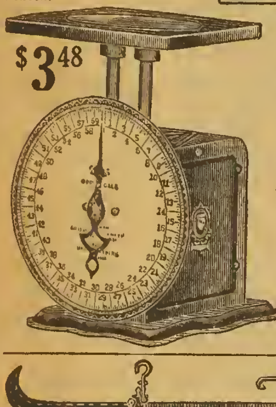
35¢

Made of hardwood; size, 7 by 16 inches. For carving meat, slicing bread, etc. Shipping weight, 2 pounds.

86 C 1880...........35¢

Scales

All of our Spring Scales are intended for family use and are accurate for practical purposes but are not legal for trade use in all states.



$3.48

Capacity, 60 Pounds

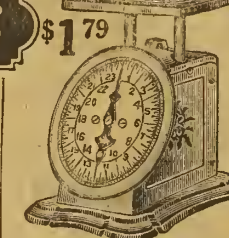
A Scale is especially valuable to the housekeeper during preserving time as good results are certain only when the ingredients have been carefully weighed and measured. This scale weighs up to 60 pounds by ounces. Made of steel. Japanned and decorated. Heavy steel top plate. Large white dial with plain figures. Shipping weight, 7 pounds.

486 C 2105.........$3.48

With Tin Scoop

Same as above with large Tin Scoop instead of the platform. Capacity, 60 pounds by 2 ounces. Shipping weight, 7 pounds.

486 C 2106.....$3.89



$1.79

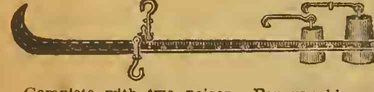
Little Detective Scale

Capacity, 24 Lbs. by Oz.

Made of steel. White enameled, 6-inch dial. Enameled steel top plate. Size, 5¾ inches square. By means of thumb-screw, scale may be adjusted to allow for a basket. Shipping weight, 4 pounds.

486 C 2101.......$1.79

486 C 2103—Same as above except with Tin Scoop. **$2.15**



Scale Beams

Complete with two poises. For roughly weighing cotton and grains. Weigh by pounds only. Do not show fractions of a pound.

Number	Capacity	Shipping Weight	Price
486 C 2132	200 pounds	8 pounds	$2.35
486 C 2134	400 pounds	21½ pounds	4.50
486 C 2135	600 pounds	33 pounds	5.95

Blue Beauty Family Scale

Capacity, 24 Lbs. by Ounces

Made of best rolled steel, finished in blue enamel; white enameled dial with glass front. Diameter of dial, 6¼ inches over all. White tile top platform, 6 by 6 inches. Shipping weight, 6 pounds.

486 C 2108.......$2.79

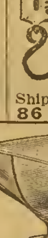
Heavy Spring Balances

Guaranteed Accurate

Strongly made of metal, black Japanned. Excellent for weighing ice. Metal dial is easy to read.

86 C 2129

To Weigh Lbs.	Divided Into	Shipping Weight	Price Each
50	½ lbs.	1 lb.	$ .98
100	pounds	1½ lbs.	2.25
150	pounds	2 lbs.	2.75
210	2 lbs.	2½ lbs.	3.49



Spring Balances

Not Legal for Trade Use

Polished brass dial. To weigh 25 pounds by ½ pounds. Shipping weight, 6 ounces.

86 C 2126... 17¢

50-lb. Capacity

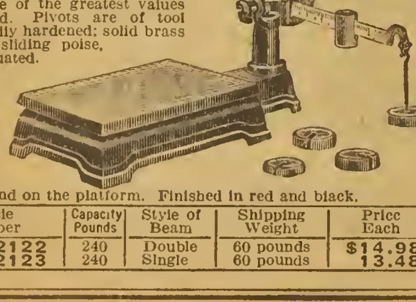
Polished brass dial. To weigh 50 pounds by pounds. Shipping weight, 8 ounces.

86 C 2127......30¢

Platform Scale

Guaranteed Accurate

Will Pass All State Requirements



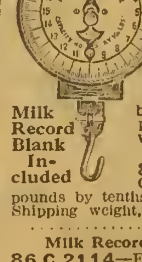
$13.48

The quality of material and expert workmanship of this Scale make it one of the greatest values ever offered. Pivots are of tool steel carefully hardened; solid brass beam and sliding poise, hand graduated. Platform measures 10 by 14 inches. Will weigh by ½ ounces in the scoop and ¼ pound on the platform. Finished in red and black.

Article Number	Capacity Pounds	Style of Beam	Shipping Weight	Price Each
486 C 2122	240	Double	60 pounds	$14.98
486 C 2123	240	Single	60 pounds	13.48

$3.98

Net Weight Dairy Scale



Milk Record Blank Included

By means of thumb screw, scale may be adjusted to allow for container.

86 C 2110 Capacity, 40 pounds by tenths of a pound. Ship. weight, 3½ lbs. **$3.98**

86 C 2111 Capacity, 60 pounds by tenths of a pound. Shipping weight, 4½ pounds. **$4.65**

Milk Record Blanks

86 C 2114—Extra per hundred..............**98¢**

Quality Food Choppers

Famous Enterprise Food Choppers

Made of cast iron, tinned and retinned—will not rust. The knife revolves against the inner surface of the plate and its keen edges cut like shears. All parts may be renewed at a small cost.

$2.25

Family Size

Enterprise Number 5 Meat Cutter. Chops 1½ pounds meat a minute. One steel plate with $\frac{3}{16}$-inch holes. Shipping weight, 6 pounds.

86 C 1924..........$2.25

$3.55

No. 10

Enterprise Meat Cutter Number 10. Chops 3 pounds of meat a minute. Plate has standard $\frac{3}{16}$-inch holes. Shipping weight, 10 pounds.

486 C 1926........$3.55

486 C 1925 — Enterprise Meat Cutter Number 12. This chopper is exactly like the No. 10 except it has legs instead of clamps and is to be screwed to the table. Shipping weight, 10 pounds.

....................$3.15

$5.79

For Butchers, Farmers, and Hotels,

Enterprise Meat Cutter Number 22. For butchers, farmers and hotels. Chops 4 pounds of meat a minute. Cast iron, tinned and retinned. Plate has standard $\frac{3}{16}$-inch holes. Shipping weight, 18 pounds.

486 C 1927.........$5.79

$1.78

Low Priced Enterprise Food Chopper

Enterprise Chopper Number 602. Cast iron tinned. Complete with three knives, one for coarse, one for medium and one for fine cutting, and also a nut butter grinder. Chops 2½ pounds meat a minute. Shipping weight, 6 pounds.

86 C 1922..........$1.78

86 C 1923 — Stuffing Attachment for above. Shipping weight, 8 ounces...........**65¢**

Enterprise Power Chopper

486 C 1930—Chops 4 pounds of meat a minute. Speed of 12 by 2-inch pulley, 350 to 400 revolutions per minute; ½ to ¾ horsepower. Shipping weight, 40 pounds...............**$9.35**

486 C 1931 — Chops 5 pounds of meat a minute. Speed of 12 by 3 inch pulley 350 to 400 revolutions per minute; ¾ to 1 horsepower. Shipping weight, 49 pounds.............**$11.15**

Extra Parts for Enterprise Choppers

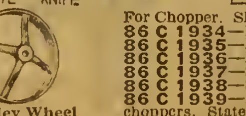
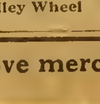


PLATE KNIFE STUFFING ATTACHMENT



Pulley Wheel

For Chopper. Ship. wt., each 2 to 10 oz....... Nos.	5	10 and 12	22	32
86 C 1934—Knives	25¢	30¢	$ .45	$ .65
86 C 1935—Plates, $\frac{3}{16}$-inch holes	30¢	55¢	.80	1.00
86 C 1936—Plates, ⅜-inch holes	30¢	55¢	.80	1.00
86 C 1937—Stuffing attachment, ¾-inch tube	59¢	67¢	.82	1.00
86 C 1938—Stuffing Attachment, 1¼-inch tube	70¢	82¢	1.00	1.19

86 C 1939—Pulley Wheel; 2-inch face; 12-inch diameter; fits Nos 12, 22, 32 choppers. State number of chopper.......................**$1.80**

Eclipse Food Chopper

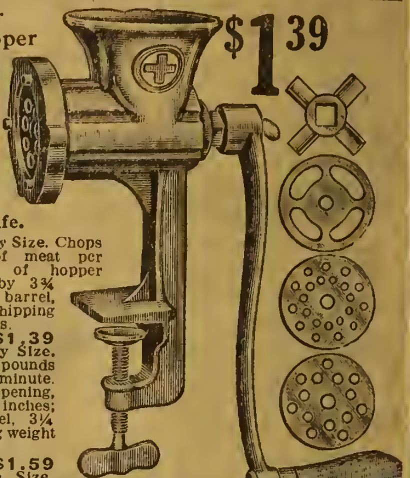
$1.59

Chops meat or vegetables, raw or cooked, fruits, nuts, bread, eggs or fish. Does the work easily without mashing, tearing or grinding. Made of gray iron, heavily tinned to prevent rusting. Each Chopper comes complete with 4 cutters. Coarse, medium, fine and a nut grinder. Also a book of recipes.

86 C 1916—Family size chops 2 pounds per minute. Diameter of hopper, 3¼ inches. Shipping weight, 5½ lbs. **$1.59**

86 C 1917—Medium Size. Chops 2½ pound per minute. Diameter of hopper, 4 inches. Shipping weight, 6 pounds................**$1.89**

Windsor Food Chopper



$1.39

Complete With Three Steel Plates; Coarse, Medium And Fine, And Self-Sharpening Steel Knife.

Small Family Size. Chops 2½ pounds of meat per minute. Size of hopper opening, 2¾ by 3¾ inches; length of barrel, 3 inches. Shipping weight, 5 pounds.

86 C 1901.$1.39

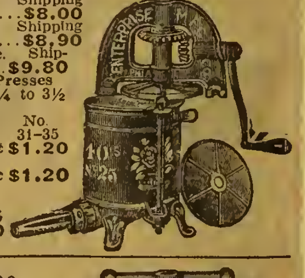
Large Family Size. Chops up to 3 pounds of meat per minute. Size of hopper opening, 2¾ by 3¾ inches; length of barrel, 3¼ inches. Shipping weight 5½ pounds.

86 C 1903.$1.59

Extra Large Size. Chops up to 4 pounds of meat per minute Size of hopper opening, 3⅞ by 4⅞ inches; length of barrel, 4½ inches. Shipping weight, 8 pounds.

86 C 1911..$2.48

Genuine Enterprise Sausage Stuffer, Lard and Fruit Presses



$8.00

An extra plate is furnished with each press. Has screw movement.

486 C 1945—4-quart size. Shipping weight, 45 pounds..............**$8.00**

486 C 1946—6-quart size. Shipping weight, 57 pounds..............**$8.90**

486 C 1947—8-quart size. Shipping weight, 60 pounds.......**$9.80**

Complete for Enterprise Presses

Average shipping weight, 1¼ to 3½ pounds.

	No. 5	No. 25	No. 31-35
86 C 1948—Small Plunger Plates.....	65¢	80¢	$1.20
86 C 1949—Large Plunger Plates.....	65¢	80¢	$1.20

86 C 1950 — Perforated Strainer Plates.

Size No.	5	25	31-35
Each......	65¢	80¢	$1.20

Windsor Fruit, Wine Jelly and Lard Presses

Please do not confuse these highest quality presses with inferior substitutes.

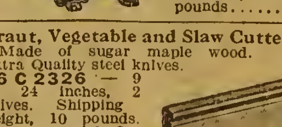
Made extra heavy and strong. **All metal parts are coated with pure block tin. Easily Cleaned.**

486 C 1953—2-quart size. Shipping weight, 14 pounds. **$3.48**

486 C 1954—4-quart size. Shipping weight, 25 pounds **$4.98**

486 C 1955—10-quart size. Shipping weight, 44 pounds. **$7.98**

Sausage Stuffer



$1.59

Japanned iron with tin spout. Extra long lever. Complete with screws.

86 C 1941—Family size. Number 1. Capacity, 1 quart. Shipping weight, 18 pounds.....................**$1.59**

86 C 1942—Large size. Number 0. Capacity, 2 quarts. Shipping weight, 22 pounds.........................**$2.25**

Kraut, Vegetable and Slaw Cutter

Made of sugar maple wood. Extra Quality steel knives.

86 C 2326 — 9 by 24 inches, 2 knives. Shipping weight, 10 pounds. **$1.69**

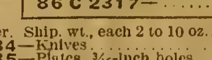
86 C 2327 — 11 by 30 inches, 3 knives. Shipping weight, 15 pounds.

$2.90

....**$2.90**

186 C 2321—11 by 35 inches, 3 knives. Shipping weight, 22 pounds...**$4.98**

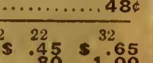
Slaw Cutter



Sugar maple. Size, about 16¼ by 6 inches. Adjustable. One 5¾-inch steel knife. Shipping weight, 2¼ lbs.

86 C 2317—.........49¢

Vegetable Slicer



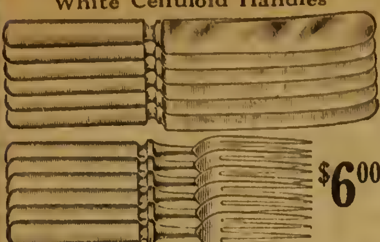
Sugar maple. Size, about 17¼ by 5¾ inches. Adjustable; 4¼-inch knife. Shipping weight, 2 pounds.

86 C 2318—............48¢

Capacities and sizes on above merchandise may vary slightly from those given

Steel Table Cutlery

White Celluloid Handles



$6.00

The handles will not crack. Only very best steel is used in the blades and prongs. Shipping weight, per set, 1¾ pounds.
86 C 921—Set of 6 knives and 6 forks. $6.00
86 C 922—Knives only. Shipping weight, per set, 1½ pounds. Set of 6.............. $3.10

Cocobolo Hardwood Handles

$2.20

One of Our Most Popular Sets
The steel used in the manufacture of this set is of the very highest grade. The knives have full swaged and curved pattern blades. Four-prong forks. Shipping weight, per set, 2 lbs.
86 C 920—Set of 6 knives and 6 forks. $2.20

White Bone Handles

$2.89

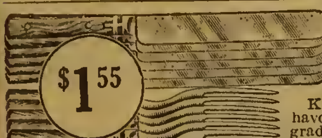
Curved pattern steel blades. Four-prong forks. Shipping weight, per set, 2¼ lbs.
86 C 912—Set of 6 knives and 6 forks. $2.89
86 C 913—Knives only. Shipping weight, per set, 1¼ pounds. Set of 6.............. $1.59

Imitation Stag Horn Handles

$2.48

Handles strongly riveted and double bolstered. Steel blades and prongs. Shipping weight, per set, 2¼ pounds.
86 C 915—Set of 6 knives and 6 forks. $2.48
86 C 916—Knives only. Shipping weight, per set, 1¼ pounds. Set of 6.......... $1.39

Cocobolo Hardwood Handles



$1.55

Knives have high-grade steel blades. Forks are of steel in the four-prong pattern. Cocobolo hardwood handles. Shipping weight, per set, 1¼ pounds.
86 C 918—Set of 6 knives and 6 forks. $1.55

$1.98

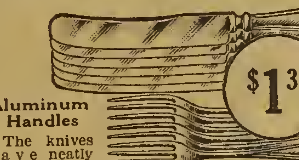
Double bolstered cocobolo hardwood handles. Well shaped steel blades. Three-prong forks. Shipping weight, per set, 2¼ pounds.
86 C 917—Set of 6 knives and 6 forks. $1.98

Heavily Nickel Plated

$1.48

Made of the best grade steel. Will give long service. Heavily nickel plated to produce high luster. Shipping weight, per set, 1¾ pounds.
86 C 923—Set of 6 knives and 6 forks.. $1.48

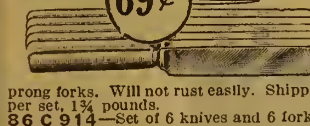
Aluminum Handles



$1.39

The knives have neatly decorated hollow aluminum handles. They are well shaped and have 5½-inch high grade steel blades. Four-prong aluminum forks. Shipping weight, per set, 1¾ pounds.
86 C 1243—Set of 6 knives and 6 forks $1.39

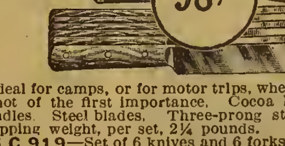
Retinned Cutlery Set



69¢

Heavily tinned. Solid iron handles. Four-prong forks. Will not rust easily. Shipping weight, per set, 1¾ pounds.
86 C 914—Set of 6 knives and 6 forks.. $ .69
Per dozen sets............ 7.75

Cocoa Handles



98¢

Ideal for camps, or for motor trips, where quality is not of the first importance. Cocoa hardwood handles. Steel blades. Three-prong steel forks. Shipping weight, per set, 2¼ pounds.
86 C 919—Set of 6 knives and 6 forks .. 98¢

The New and Popular Stainless Steel Cutlery

Black Rubber Handles

$7.98

Will not easily rust or stain from contact with fruits or vegetables. No scouring requred. Black rubber handles. Knives have 5½-inch shaped blades. Four-prong forks. Shipping weight, per set, 1¾ pounds.
86 C 910—Set of 6 knives and 6 forks. $7.98

Silver-Plated Handles

$7.98

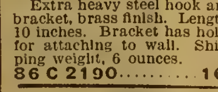
Knife blades have keen cutting edges and will not easily rust or stain. The forks and knife handles are silver plated. Shipping weight, 2 pounds.
86 C 907—Set of 6 knives and 6 forks. $7.98
86 C 908—Knives only. Shipping weight, per dozen, 1¾ pounds. Per dozeu $7.98

Bird Cages

$2.98

Painted Bird Cage

Steel wire painted white, with colored trimmings. Height, 16½ inches. Base, 13⅛ by 10⅜ inches. Shipping weight, 4 pounds.
486 C 2180..... $2.98



Wire Bird Cage Hook

Extra heavy steel hook and bracket, brass finish. Length, 10 inches. Bracket has holes for attaching to wall. Shipping weight, 6 ounces.
86 C 2190.......... 16¢

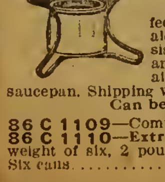
Bird Cage Spring and Chain

Brass finish. Good value. Extreme length, 24 inches. Shipping weight, 4 ounces. 23¢
86 C 2188.......... 23¢

$8.95

Brass Bird Cage Satin Finish

Sliding drawer base. Brass screen seed guard. Body, 10¾ by 7¾ inches. Base, 11¼ by 14 inches. Shipping weight, 5 pounds.
486 C 2184..... $8.95



Instant Alcohol Stove Outfit

39¢

Smokeless, odorless and perfectly safe. Can not spill as alcohol is solidified. Set consists of 1-quart tin sauce pan and cover, stand and can of alcohol. All parts fit into saucepan. Shipping weight, complete, 1½ pounds. Can be sent by mail.
86 C 1109—Complete outfit. .... 39¢
86 C 1110—Extra cans of alcohol. Shipping weight of six, 2 pounds. Can be sent by mail. Six cans .... 59¢

Imitation Leather Utility Cushion

69¢

Waterproof Just the Thing For the Camper

A soft waterproof Cushion for the porch, lawn, boat or camp. Also forms a handy knee pad for scrubbing. Size, 16 by 13 inches. Well filled. Covered with waterproof imitation leather in tan, green or black. Shipping weight, 1¾ pounds. State color wanted.
86 C 1780.............................. 69¢

For our complete line of Campers' and Hunters' Equipment, see Pages 551 to 554.

Cutlery for the Butcher

Steak Knives. Polished cocobolo hardwood handles, secured with large brass rivets.
86 C 943—10-inch blade. Shipping weight, 14 ounces.................. 89¢
86 C 944—12-inch blade. Shipping weight, 1½ pounds. $1.25

Lakeside Bread and Meat Slicer. Has 9½-inch best steel blade. Cocobolo wood handle riveted to tang of blade with heavy brass rivets. Shipping weight, 6 ounces.
86 C 950 .... 49¢

Butcher Knives. Polished cocobolo hardwood handles secured with large brass rivets High grade hand wrought steel blades have proper shape and balance.
86 C 940—6-inch blade. Shipping weight, 12 ounces....... 39¢
86 C 941—7-inch blade. Shipping weight, 12 ounces....... 49¢
86 C 942—8-inch blade. Shipping weight, 13 ounces....... 60¢

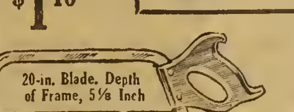
Butcher Knives. Beech Handle. Blade is hand wrought from finest crucible steel.
86 C 936—6-inch blade Shipping weight, 10 ounces... 29¢
86 C 937—7-inch blade. Shipping weight, 12 ounces..... 35¢
86 C 938—8-inch blade. Shipping weight, 14 ounces..... 49¢
86 C 939—9-inch blade. Shipping weight, 1 pound..... 59¢

3-Piece Butchering Set

One skinning knife, one butcher knife and one sticking knife. All have 6-inch blades. Beechwood handles. Shipping weight, per set, 1¾ pounds.
86 C 945—Set of 3 knives..................... 98¢

Butchers' Saws

$1.10



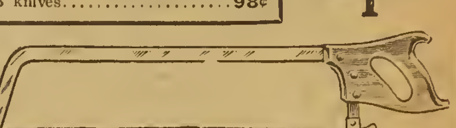
Flat polished steel back, beechwood handle; ¾-inch steel blade hand filed, ready for use.

86 C 947

Length Blade	Shipping Weight	Each
20 inches	3½ pounds	$1.10
22 inches	3¾ pounds	1.25
24 inches	4 pounds	1.35

Butchers' Saws

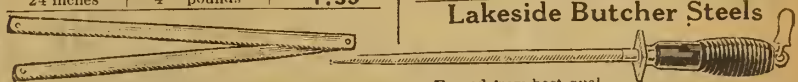
$1.60



Flat Polished Steel Frame

86 C 946—Hardwood handle.

Length Blade	Ship. Weight	Each
20 inches	3¾ pounds	$1.60
24 inches	4 pounds	1.80



Butchers' Saw Blades

Extra high grade tempered and polished. Filed and set, ready for use; ⅝ inch wide with 11 teeth to the inch. Can be refiled.

86 C 948

Length	Ship. Weight	Each	Dozen
18 inches	1 pound	18¢	$1.98
20 inches	1⅛ pounds	19¢	2.10
22 inches	1¼ pounds	21¢	2.39
24 inches	1⅜ pounds	22¢	2.48
26 inches	1½ pounds	24¢	2.75

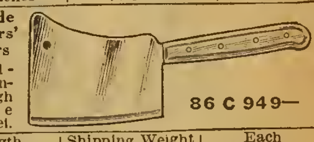
Lakeside Butcher Steels

Forged from best quality high carbon steel. Ebonized handle. Lengths given do not include handles.

86 C 926

Length	Shipping Weight	Each
10 inches	1¾ pounds	75¢
12 inches	2 pounds	85¢
14 inches	2¼ pounds	98¢

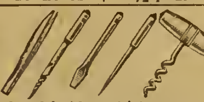
Lakeside Butchers' Cleavers



Hardwood handle. High grade solid steel.

86 C 949—

Length	Shipping Weight	Each
7 inches	1¾ pounds	$1.98
8 inches	4¼ pounds	2.25
9 inches	4½ pounds	2.48
10 inches	5½ pounds	2.79

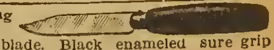


Handy Pocket Tool Set

Screw driver, corkscrew, awl, auger and tweezers in a 3-inch nickel plated holder which serves as a handle. Shipping weight, per set, ½ pound.
86 C 2347—Complete set .... 25¢

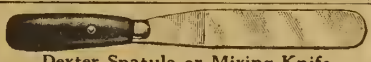
Stainless Steel Paring Knife

Has 3⅛-inch steel blade. Will not easily rust or stain. Ebonized handle. Shipping weight, 4 ounces.
86 C 924................................ 24¢



Dexter Paring Knife

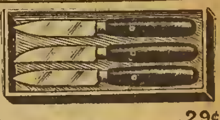
Three-inch blade. Black enameled sure grip handle. Shipping weight, 4 ounces.
86 C 934 .... 20¢



Dexter Spatula or Mixing Knife

Flexible blade, length, 6 inches. Enameled handle Shipping weight, 4 ounces.
86 C 932.............................. 49¢

Paring Knife Set



Three-inch blades, ground sharp for immediate use. Round ebonized handles. Ship. weight, per set, 6 ounces.
86 C 935—Set of 3 .... 29¢

Retinned Steel Spoons

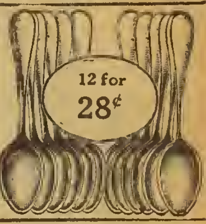
Shipping weight, per dozen, 11 ounces
86 C 1731—Dozen.... 23¢

Tablespoons
Shipping weight, per dozen, 20 ounces
86 C 1732—Dozen .. 45¢

Cast Aluminum Teaspoons

Shipping weight, per dozen, 3 ounces.
86 C 1146—Dozen..... 28¢

Tablespoons
Shipping weight, per dozen, 5 ounces.
86 C 1147—Dozen..... 48¢



High Grade Utensils with Holder

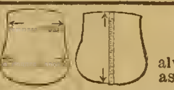
$1.39

Well made of heavily retinned steel with white enameled wood handles. Nickel plated holder. Set consists of egg beater, potato masher, slotted mixing spoon, flesh fork, measuring spoon, cake turner. Flesh fork is 13¼ inches long. Shipping weight of set, 3 pounds.
86 C 1831—Complete set........... $1.39

Protect Your Clothes from Moths and Dust with These Roomy Dustproof Garment Bags

HANGER NOT FURNISHED

Do not hang your clothes away unprotected, allowing them to become dusty, shabby and moth eaten. The wear and tear on your clothes is more expensive than a few of these reasonably priced bags. They are large and roomy, made of cretonne in assorted patterns; 53½ inches long. 23¾ inches wide. Snap fasteners. Two pockets on inside for camphor or sachet. Shipping weight, 1¼ pounds.
86 C 1749..... $1.29
86 C 1750 — Made of unbleached muslin .. 89¢



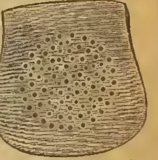
Chair Seats

When ordering Chair Seats, always state measurements as illustrated at the left.

Leather Upholstered

Extra strong, comfortable Seat. Has steel base with heavy padding and is covered in a good quality brown Spanish or black artificial leather. Nails included. Sizes given are front widths. Average shipping weight, 1¼ lbs. State color wanted.
86 C 1762—12-inch.. 59¢
86 C 1763—14-inch.. 79¢
86 C 1764—16-inch... 98¢

Shaped Wood Seat

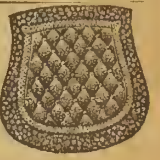


Perforated in star and circle design. Made of three-ply built-up veneer stock, in natural light color. Sizes given are front widths.
Shipping weight, 1 pound.
86 C 1778—14-inch... 19¢
86 C 1779—15-inch... 25¢

Square Wood Seat

Similar to above except plain square shape with star perforations. Shipping weight, 1 pound
86 C 1765—12-inch size. .... 14¢
86 C 1766—15-inch size .... 18¢
86 C 1767—16-inch size .... 23¢
86 C 1768—17-inch size .... 25¢
86 C 1769—20-inch size............ 29¢

Fiber Board Seats



Resemble leather. Widths givenare front widths. Furnished in black or brown. State color wanted. Shipping weight, 1 pound.
86 C 1756—12-inch..... 8¢
86 C 1757—14-inch... 10¢
86 C 1758—16-inch.. 14¢

Sizes on above merchandise may vary slightly from those given

Famous Angle Lamps

The Angle Lamp provides an improved and safe method of illumination. It is different from all other lamps. The flame burns at an angle, throwing the brightest light downward through the clear glass globe, while the opal glass chimney spreads a soft light to the upper part of the room. The flame projects from the side of the lamp which does away with the shadow thrown by the burner and fount of the ordinary lamp.

It is easy to light. Simply raise the burner and apply the lighted match. No chimneys or globe to remove. It may be burned low or to full height without flicker or odor. The top chimney protects the flame from drafts, preventing smoke.

The Angle Lamp burns 20 hours on one quart of oil, while the ordinary lamp burns only 10 hours on this amount. The oil pot may be lifted out for filling without removing chimney, globe or burner—it is not even necessary to extinguish the light.

Cast Metal, Old Gold Finish

$14.50

This Two-Burner Hanging Lamp, cast from white metal, is of an unusually impressive classic design, old gold finish. Bottom globes are of clear plain glass, chimneys are of white opalescent ribbed glass. The patent lift-out fount holds about a quart of oil, and will burn ten hours. Shipping weight, 23 pounds.

450 C 900 ..... $14.50

50 C 903 Spring Extension for above lamp. Shipping weight, 8 pounds $3.10

A Reading Lamp of Unique Design

$11.95

It has not always been possible to buy a table lamp with appearance and lighting properties of such excellence. In this single burner Reading Lamp you will enjoy a steady, soothing light, as well as a lamp of unusual beauty. The artistically designed metal base is finished in old gold. The height to top is 15 inches. Bottom globe is of clear, plain glass, chimney is of white opalescent ribbed glass. Cast patent lift-out fount holds about a quart of oil, which burns 20 hours. Shipping weight, 28 pounds.

450 C 901 ..... $11.95

The Latest Type of Wall Lamp

Of white metal, in old gold finish, this Wall Lamp is a marked improvement over the old style wall lamp. Patent lift-out fount holds one pint of oil which burns 10 hours. Bottom globe is of clear plain glass, chimney opalescent ribbed glass. Shipping weight, 20 lbs.

450 C 902— $8.95

Nickeled Embossed Lamps

Two-Burner Hanging Lamp

$8.50

Finely nickeled and polished, with embossed oil pot holder. These hanging lamps have bottom globes of plain clear glass, and chimneys of white ribbed glass. Fitted with Number 3 flat wick burners. Oil pot holds 2½ quarts of oil. Instructions included.

Two-Burner Hanging Lamp

$8.50

Burns 10 hours, on one filling (1 quart of kerosene). Shipping weight, 20 pounds.

450 C 905 ..... $8.50

Three-Burner Hanging Lamp

$10.95

Burns 15 hours on one filling (3 quarts of kerosene). Shipping weight, 30 pounds.

450 C 904 ..... $10.95

Single Burner Wall Lamp

$5.95

A wall lamp fitted with a slot for hook or nail. Handsomely finished in polished nickel. Oil pot holds 1 quart of kerosene. Burns 20 hours. Shipping weight, 18 pounds.

450 C 906 ..... $5.95

Extra Top and Bottom Globes For Angle Lamps

50 C 907—Top Globes. Plain white opalescent. Each ..... 95¢

50 C 908—Bottom Globes. Clear plain glass. Each ..... 75¢

50 C 909—Blue Opalescent Top Globes. Each $1.35

Shipping weight, each, 2½ pounds.

Spring Extension for Hanging Lamps

Strong, well made. Extends to 36 inches. Shipping weight, each, 8 pounds.

50 C 916 — Polished brass. Each $2.98

50 C 917 — Nickel plated. Each $3.10

Our toy section is more interesting than ever before. Be sure to see it. Pages 402-421.

Bracket Oil Lamp with Adjustable Reflector

A medium priced bracket lamp with bracket, wall plate and fount holder of solid metal, finished in golden bronze. Crystal glass fount. Complete with adjustable reflector, Number 2 Sun Burner, chimney and wick. Height, 15 inches. Shipping weight, 5½ pounds.

550 C 912— $1.69

50 C 913— 8-inch Silvered Glass Reflector ..... 75¢

Ship. wt., 1 lb.

Bracket Lamp

$4.19

Bracket and wall plate finished in golden bronze. Brass oil fount is removable. Equipped with a 10-inch silvered glass reflector, Number 2 Center Draft B. & H. Burner, chimney and wick. Height, 18 inches. Shipping weight, 7½ pounds.

450C914—$4.19

Extra Supplies for Above Lamp

50 C 926—Number 2 Rochester Chimney. Three for ..... 25¢

Ship. wt. of 3, 2½ lbs.

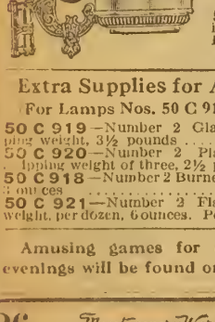
50 C 927—Number 2 B. & H. Wick. Each ..... 15¢

Ship. wt. 1 oz.

50 C 915—10-inch Reflector. Each ..... 98¢

Ship. wt., 1 lb.

Low Priced Bracket Lamp



Solid metal bracket, fount holder and wall plate are finished in golden bronze. Crystal glass fount. Complete with 7-inch silvered reflector, Number 2 Sun Burner, chimney and wick. Height 14 inches. Shipping weight, 5 pounds.

50 C 910 — $1.39

50 C 911 — 7-inch Silvered Glass Reflector. Each ..... 60¢

Shipping wt., 1 lb.

Large Crystal Glass Lamp Colonial Design

$1.29

Colonial design Lamp of crystal glass. Chimney to match. Fount has a patented clinch-on collar. Lamp is equipped with Number 2 Sun Burner and wick. Height, 19 inches. Shipping weight, 7 pounds.

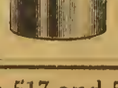
550 C 960 ..... $1.29

50 C 961—Chimneys for above lamp. Each ..... 45¢

Ship. wt. of 3, 2½ lbs.

Polished Brass Oil Founts

$2.50



For use in lamps where a special inside lift-out fount is required. Fitted with the well known B. & H. Number 2 Center Draft Burner. Diameter 4¾ inches. Complete with Number 2 B. & H. Wick. Shipping weight, 10 lbs.

50 C 932 ..... $2.50

Extra Supplies for Above Lamps

(For Lamps Nos. 50 C 912 and 50 C 910)

50 C 919 —Number 2 Glass Oil Fount. Shipping weight, 3½ pounds ..... 35¢

50 C 920—Number 2 Plain Top Chimneys. Shipping weight of three, 2½ pounds. 3 for 69¢

50 C 918—Number 2 Burner. Shipping weight, 3 ounces ..... 17¢

50 C 921—Number 2 Flat Wick. Shipping weight, per dozen, 6 ounces. Per dozen ..... 25¢

Amusing games for the long winter evenings will be found on Page 418.

Match-Lighting Gasoline Lamps

The Match-Lighting Gasoline Lamp produces a soft white light of 300 candlepower brighter than city gas or electricity. Though bright, the light is mellow and restful to the eyes. Lamp is perfectly safe—will burn upside down or in any position. The gasoline cannot escape. It is lighted with a common match in 10 to 15 seconds. No dirty wicks to trim or chimneys to clean—no dirt, smoke or odor. One cleaning a month will keep the lamp in good condition. It will burn 20 to 24 hours on one filling (4 pints of gasoline). The base and trimmings are finished in polished nickel. Complete with a double mantle burner, air pump, extra generator and wrench. Use 50 C 956 mantles listed below.

Lights in 15 Seconds—Makes Its Own Gas

450 C 950 — Twelve - inch green art paneled shade with brass filigree work. Shipping weight, 14 lbs.

$12.98

Use a Common Match

Block's Perfect Sewed Bottom, Shadowless Mantles

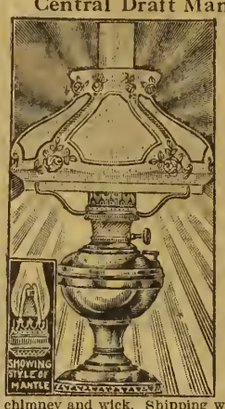
50 C 955— Regular size. For use on single burner, gasoline or kerosene lamps and lanterns. Shipping weight, 1 oz. For 6 ..... 54¢

50 C 956—Junior Size. For use double burner lamps lanterns. Shipping weight, 1 ounce. ..... 39¢

$7.98

450 C 951— Has ribbed opal glass shade. Diameter, 10 inches. Shipping wt., 15 lbs.

Sunlight Kerosene Mantle Lamp Central Draft Mantle Burner



$8.95

The Sunlight Mantle Lamp will flood your rooms with an even light, soft and mellow and easy on the eyes—60 candle-power. Burns kerosene oil. It is simple in operation; perfectly safe, easy to light and extinguish. Base is nickel finished. Shade is of white frosted glass, decorated with an embossed conventional rose design. Lamp stands 28 inches high. Measures 11 inches in diameter. Complete with mantle, chimney and wick. Shipping weight, 10 pounds.

450 C 933 ..... $8.95

50 C 934—Extra Mantles. Shipping weight, each, 6 ounces. Each ..... 30¢

50 C 935—Mounted Wicks. Shipping weight, each, 8 ounces. Each ..... 50¢

50 C 936—Chimneys. (Cannot be sent by parcel post). Ship. wt., each, 2 pounds. Each 45¢

Pansy Design Hanging Lamp With Imported Glass Prisms

$12.95

Equipped with the famous B. & H. Number 2 Center Draft Burner.

The 14-inch dome shade of opal glass is decorated with pansies on a pink and gray tinted background and hung with 30 imported crystal glass prisms. Oil fount is of brushed brass. Shipped complete ready to use, with the well known B. & H. automatic extension. Shipping weight, 30 pounds.

450 C 943—Each $12.95

Extra Supplies for Above Lamp

50 C 926—Number 2 Rochester Chimney. Shipping weight, 2½ pounds. Three for 85¢

50 C 927 — Number 2 B. & H. Wick. Shipping weight, 1 ounce. Each ..... 15¢

B. and H. Central Draft Radiant Lamp

$6.50

One of the best known and thoroughly satisfactory Kerosene Oil Lamps. Its light is soft, clear, steady and restful to the eyes—the ideal light by which to work or read. Base and fount of solid brass, handsomely nickel plated. The white lined green corrugated glass shade measures 10 inches in diameter. Equipped with the celebrated Number 4 B. & H. Central Draft Burner, Number 1 Belgian Chimney and Number 4 Radiant Wick. Lamp stands 21 inches high. Ship. wt., 10 lbs.

450 C 940 ..... $6.50

Extra Supplies for Above Lamp

50 C 953—10-inch Green Ribbed Shade. Ship. wt., 3½ lbs. Each $1.98

50 C 938—Number 1 Belgian Chimney. Ship. wt., 2½ lbs. Three for ..... .65

50 C 939—No. 4 Radiant Wick. Shipping weight, 1 ounce. Each ..... .15

Store Lamp with B. and H. Burner Green Tin Shade

$9.98

Embossed brass fount and frame. Green tin shade, 20 inches in diameter. Equipped with Number 3 B. & H Center Draft Burner, chimney, wick and smoke bell. Shipping weight, 25 pounds.

450 C 944— $9.98

50 C 929— Number 3 Rochester Chimney. Three for $1.75

Ship. wt. 2½ lbs.

50 C 930— Number 3 B. & H. Mammoth Wick. Each ..... 35¢

Ship. wt., 1 oz.

450 C 945— Similar to above but has a plain polished brass fount and frame and is fitted with No. 2 B. & H. Center Draft Burner. Shipped complete with chimney, wick and smoke bell. Shipping weight, 20 pounds $5.75

50 C 926—Number 2 Rochester Chimney. Shipping weight, 2½ pounds. Three for ..... 85¢

50 C 927—Number 2 B. & H. Wick. Shipping weight, 1 ounce. Each ..... 15¢

Low Priced Reading Lamp B. and H. Central Draft Burner

$4.25

An ideal Lamp by which to work or read. The brass fount and base are richly nickel plated. Ribbed dome shade of white opal glass is 10 inches in diameter. Equipped with Number 2 B. & H. Center Draft Burner, Chimney and wick. Lamp stands 20 inches high. Shipping weight, 10 lbs.

450 C 942 — $4.25

Extra Supplies for Above Lamp

50 C 952— 10-inch Opal Ribbed Shade. Each $1.25

50 C 926 — No. 2 Rochester Chimney. Shipping weight, 2½ pounds. 3 for ..... 85¢

50 C 927—No. 2 B. & H. Wick. Shipping weight, 1 ounce. Each ..... 15¢

White Dome Hanging Lamp

$6.98

This moderately priced Oil Lamp will give excellent service. The plain opal glass dome shade is 14 inches in diameter. Fount is of clear embossed glass. Brass finished collar and smoke bell. Equipped with the famous B. & H. automatic extension. No 2 Sun Burner, chimney and wick. Shipping weight, 30 lbs.

450 C 946— $6.98

Extra Supplies for Above Lamp

50 C 838— 14-inch Opal Glass Dome shade Shipping weight, 5 pounds. Each $2.98

50 C 924 — Number 2 Glass Library Fount. Each ..... 40¢

50 C 918 — Number 2 Sun Burner. Shipping weight, 2 ounces. Each ..... 17¢

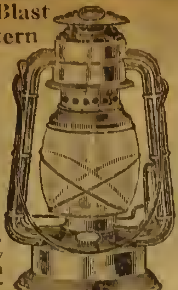
50 C 920 — Number 2 Plain Top Chimney. Shipping weight, 2½ pounds. Three for ..... 69¢

50 C 921 — Number 2 Flat Wick. Shipping weight, 6 ounces. Per dozen ..... 25¢

Pages 517 and 518 contain unusual bargains. Look them over

Reliable Lanterns

Cold Blast Lantern



98¢

A very handy lantern for general use. It has a short globe which is easily cleaned. Gives a bright light. Height, 11½ inches. Uses a ⅝-inch wick. Will burn 18 hours on one filling of kerosene. Shipping weight, 9 pounds.

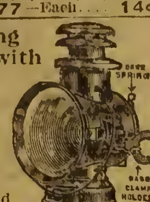
86 C 2278 .... 98¢

Extra Globes

Ship. weight, each, 1 pound.

86 C 2277—Each.... 14¢

Driving Lamp with Red Rear Signal



Removable reflector. ⅜-inch wick. Finished in black. Clamp bracket, also handle. Plain lens, 30 candlepower. Shipping weight, 4½ pounds.

86 C 2269 .... $3.98

86 C 2270—Similar to above except with powerful ribbed lens, 70 candlepower $4.48

Dietz Scout Lantern

A handy little Lantern for campers. Has tin fount. Height, 7½ inches. Equipped with ⅝-inch wick. Shipping weight, 3 pounds.

86 C 2275 59¢

Kerosene Oil Cans

Galvanized. Capacity, 5 gallons. Fitted with galvanized faucet and screw top. Shipping weight, 8 pounds.

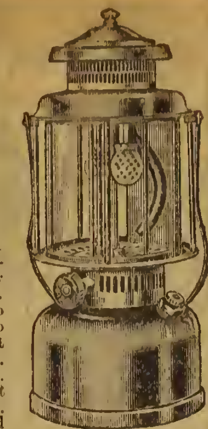
486 C 2511 ...... $1.15

486 C 2512 — Same as above except fitted with spout instead of faucet. Capacity, 5 gallons. Shipping weight, 8 pounds .... 79¢

86 C 2513 — Galvanized with spout and screw top. Capacity, 1 gallon. Shipping weight, 1½ pounds ...... 33¢

Match Lighting Gasoline Lantern

Gives More Light Than Twenty Kerosene Lanterns



Takes only 10 to 15 seconds to light. It is efficient, safe, powerful and economical. Will burn anywhere in any position and in any kind of weather. It is blizzardproof and bugproof. No wicks to trim, no globes to clean, no smoke, no soot, no flicker. Can not spill. Easy to light and extinguish. Simple in construction and operation. Burns 12 hours on one filling, 1 quart of gasoline. About 300 candlepower. Extremely steady light. Equipped with extra generator, extra tip, tip cleaner, wrench, pump and one set of mantles.

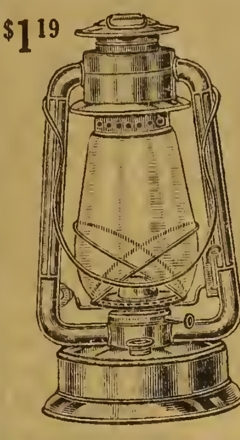
Complete instructions for use with each lantern. Height, 14 inches. Shipping weight, complete, 5 pounds.

486 C 2288—Lantern complete $6.30

Extra Mantles. Shipping weight, for six, 6 ounces.

86 C 2289—Six for .... .39

$1.19



Cold Blast Oil Lantern

Burns 40 Hours on One Filling

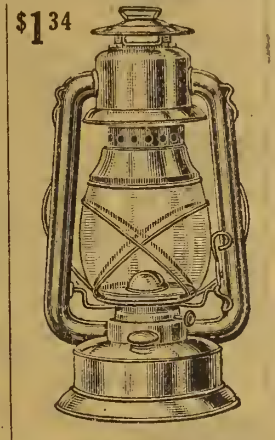
Burns steadily in the strongest wind and the cold blast principle produces perfect combustion and a strong white light. Built of heavily retinned steel. Fount holds 2½ pints of oil. Number 2 burner, 1-inch wick. Height, 14¾ inches. Shipping weight, 9 pounds.

86 C 2254 .... $1.19

Extra Globes. Shipping weight, each, 1 pound.

86 C 2255—Each ...... 12¢

$1.34



Tin Fount Short Globe Oil Lantern

The fount will give long service, and the cold blast principle insures a brilliant light with no waste of oil. The lamp is practically indestructible. The globes are easily cleaned. Extra quality tin plate is used above fount. Number 2 burner, 1-inch wick. Height, 14¼ inches. Shipping weight, 8 pounds.

86 C 2256 .... $1.34

Extra Globes. Shipping weight, each, 1 pound.

86 C 2259—Each ...... 12¢

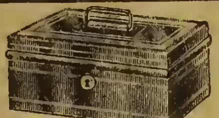
74¢

Galvanized Iron Basket

186 C 2343 — With side handles. Size, 1 bushel. Shipping weight, 5 pounds.... 74¢

186 C 2342 — With bail instead of side handles. Size, ½ bushel. Shipping weight, 3½ pounds .... 59¢

Cash and Deed Boxes

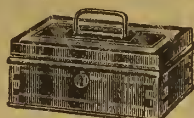


Standard Grade

Made of tin, Japanned black. Gilt trimmed. A handy place to keep legal papers, money or valuables of any kind. Complete with lock and key.

86 C 1740—Size, 10¾ by 7¾ by 3¾ inches. Shipping weight, 2½ pounds .... 98¢

86 C 1741 — Size, 12⅜ by 8⅜ by 5¼ inches. Shipping weight, 3 pounds $1.19



Extra Heavy

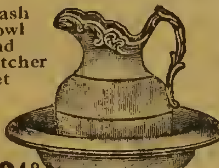
Made extra heavy with reinforced corners. Complete with lock and key. Black Japanned, gilt trimmed.

86 C 1742 — Size, about 10½ by 7¾ by 4½ inches. Shipping weight, 2½ pounds $2.48

86 C 1743—Size, about 12⅜ by 8⅜ by 5¼ inches. Shipping weight, 3½ pounds $2.79

Semi-Porcelain and Stone Sanitary Ware

Wash Bowl and Pitcher Set



$2.48

Fancy embossed white Wash Bowl and 6-quart Pitcher. Large size. Width of wash bowl, 15½ inches; capacity, 7 quarts. Shipping weight, per set, 8½ pounds.

150 C 1352—Set $2.48

Semi-Porcelain Slop Jar

$2.25

Wire bail handle. Neatly embossed white semi-porcelain. Height, 12 inches. Capacity, 7½ quarts. Shipping weight, 15 pounds.

450 C 1364 .... $2.25

Gray Stoneware Slop Jar. Embossed in panel design. Height, 12½ inches. Capacity, 8½ quarts. Shipping weight, 20 pounds.

450 C 1339 .... $1.48

$1.19

All White Semiporcelain Covered Chamber

Neatly embossed white semi-porcelain. Capacity, 4 quarts. Shipping weight, 12 pounds.

50 C 1362 .... $1.19

For other Sanitary Ware and Sickroom Supplies, see Pages 383 and 385.

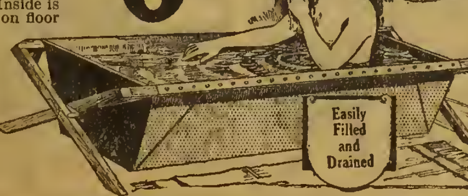
Folding Bath Tub

Easily Filled or Drained by Hose Coupling Furnished with Tub

$6.48

Provides the convenience of a large size bath tub to farm homes, summer cottages and camps. Entirely does away with the need of clumsy wash bowls, foot tubs and galvanized or wooden tubs. Strong hardwood frame with body of thick rubber-covered duck. Inside is smooth, soft and silky. Bottom rests on floor so it cannot tip or sway. It will not spill, leak or splash. Hot water does not hurt it. Filled from a faucet by means of a hose connection or you can fill it up just as you would an old fashioned tub. Length, 5 feet, width, 27 inches; depth, 16 inches. Weight, 15 pounds. Shipping weight, 16 pounds.

186 C 1341 .... $6.48



Sanitary Ware

Nickel Plated Hot Water Bottle

98¢

Keeps hot three times longer than a rubber bottle. Never leaks—cannot be punctured by careless handling. Complete with cotton flannel bag and wire holder. Shipping weight, 1½ pounds.

86 C 1348 .... 98¢

White Enameled Water Pitcher

$1.15

86 C 802

Capacity	Ship. Wt.	Each
2 qts.	1½ Lbs.	$1.15
3¼ qts.	2 Lbs.	1.39
7 qts.	4 Lbs.	2.10

Combinet Gray Enameled

$1.49

Seamless. Has smooth, rolled edge. Snug fitting enameled cover. Wood grip bail. Sanitary. Capacity, about 12 quarts. Shipping weight, 6 pounds.

486 C 1314 .... $1.49

Gray Enameled Odorless Commode

Water seal Commode with a "V" shape top rim, into which the flange of cover fits. Water placed in this groove makes it perfectly airtight. Will fit chair opening, 8½ to 9⅛ inches in diameter. Height, 7½ inches. Shipping weight, 7½ pounds.

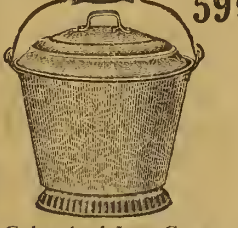
86 C 1308 .... $1.65

Odorless Commode Galvanized Iron

$2.65

Outside has thin coat of aluminum paint. Removable wood seat. Cover fits in a groove which forms an airtight seal when filled with water. A deodorizing cup is attached to cover. Use chloride of lime in the cup as a disinfectant. Height, 12½ inches. Diameter, 11½ inches. Shipping weight, 8 pounds.

486 C 1307 .... $2.65

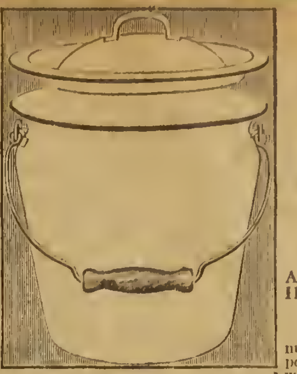


59¢

Galvanized Iron Commode

Made of heavy galvanized iron. Cover fits tightly. Handle has wood grip. Capacity, 12 quarts. Shipping weight, 3 pounds.

86 C 1315 .... 59¢

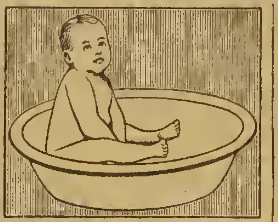


White Enameled Combinet

$1.59

Cover fits tightly. Easily cleaned. Shipping weights, 5 and 8 pounds.

Article Number	Holds	Each
486 C 1312	8¼ qts.	$1.59
486 C 1313	12 qts.	1.79



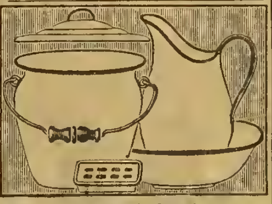
Child's White Enameled Bath Tub

$2.39

Has wide rounded rim with black edge. Inside dimensions: Length, 18 inches; width, 14 inches; depth, 6 inches. Shipping weight, 14 pounds.

86 C 1335 .... $2.39

86 C 1347—Gray enamel babies' bath tub same size as above $1.39



White Enameled Toilet Set

Wash basin, 14 inches; water pitcher, 6 quarts; chamber pail and cover and, soap dish with drain. Shipping weight, per set, 13 pounds.

486 C 1309—Set.... $4.48

White Enameled Wash Basin

86 C 804

Diameter	Shipping Weight	Each
12 inches	2 pounds	39¢
13 inches	3 pounds	48¢
14½ inches	4 pounds	59¢

White Enameled Wash Basin and Holder

Black Japanned iron basin holder, soap rack and 11½-inch white enameled wash basin. To be attached to wall. Shipping weight, per set, 2¾ pounds.

86 C 1343—Set........ 59¢

Gray Enameled Foot Tub or Baby Bath

Dimensions, 18 by 14½ inches, top diameter. Depth, 6 inches. Shipping weight, 5 pounds.

86 C 1344 .... $1.19

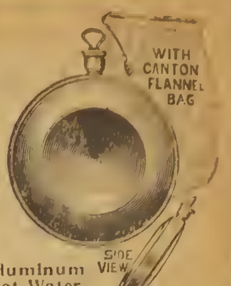
Peerless Galvanized Iron Garbage Pail

85¢

Galvanized after being made. Capacity, 10 quarts. Shipping weight, 5 pounds.

486 C 2367 .... 85¢

For Bathroom Supplies, see Pages 614 to 617. Face towels, bath towels and wash cloths are shown on pages 150 to 152.



Aluminum Hot Water Bottle

Made of hard sheet aluminum. Will stay warm for a period of 12 hours, doing away with the necessity of refilling during the night. Almost indestructible. Complete with canton flannel drawstring bag. Shipping weight, 1½ pounds.

86 C 1346 ..... $1.69

White Enameled Toilet Stand

$3.89

Frame basin, pitcher and soap dish are white enameled. Pitcher and basin have dark blue rims and handles. Ht., of set, 30½ inches. Diameter of basin, 13 inches; 3-quart pitcher. Shipping weight, per set, 14 pounds.

186 C 1325—Set... $3.89

53¢

White Enameled Chamber

86 C 1327

Size	Ship. Weight	Each
Medium	1¼ pounds	53¢
Large	1½ pounds	65¢

Covers for above

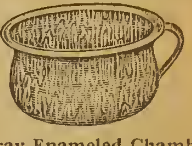
86 C 1328

Size	Ship. Weight	Each
Medium	12 ounces	19¢
Large	15 ounces	24¢

White Douche Pan

White enamel. Far more practical than the old style douche pan. Shipping weight, 4 pounds.

86 C 1345 .... $2.49



Gray Enameled Chamber

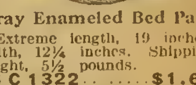
86 C 1331

Size	Ship. Weight	Each
Medium	1½ pounds	39¢
Large	2 pounds	49¢

Covers for above

86 C 1332

Size	Ship. Weight	Each
Medium	12 ounces	19¢
Large	14 ounces	24¢



Gray Enameled Bed Pan

Extreme length, 19 inches; width, 12¼ inches. Shipping weight, 5½ pounds.

86 C 1322 ...... $1.69

Enameled Douche Pan

Gray enameled. Size, 15¾ by 12 by 3 inches. Shipping weight, 6½ pounds.

86 C 1324 .... $1.39

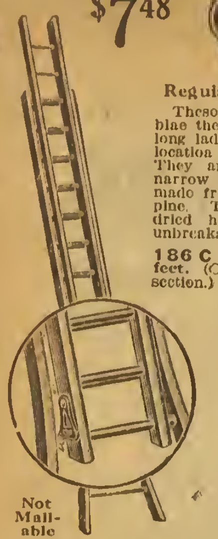
Gray Enameled Cuspidor

79¢

Seamless. Sanitary. Has removable sanitary cover. Size, 10¾ by 4½ inches. Shipping weight, 3 pounds.

86 C 1340 .... 79¢

Ladders



$7.48

Regular Extension Ladders

These Extension Ladders combine the advantages of short and long ladders as required for the location and work to be done. They may be assembled in a narrow space. The uprights are made from select, straight grain pine. The rungs are of kiln-dried hickory. Malleable iron unbreakable hooks.

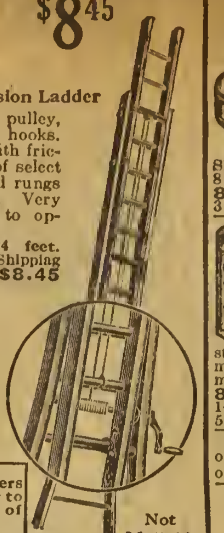
186 C 2206—Length, 28 feet. (One 16 and one 12-foot section.) Ship. wt., 57 lbs. **$7.48**

186 C 2207 — Length, 32 feet. (One 18 and one 14-foot section.) Shipping weight, 62 pounds. **$8.98**

186 C 2208 — Length, 34 feet. (One 18 and one 16-foot section.) Shipping weight, 75 pounds. **$9.98**

186 C 2209 — Length, 38 feet. (One 20 and one 18-foot section.) Shipping weight, 91 pounds. **$10.98**

Not Mailable



$8.45

Windlass Rope Extension Ladder

Equipped with rope, pulley, crank and automatic hooks. Heavy steel crossbar with friction roller. Sides are of select straight grain pine, and rungs of kiln dried hickory. Very strongly built. Easy to operate.

186 C 2214—Size 24 feet. (Two 12-foot sections.) Shipping weight, 50 pounds........ **$8.45**

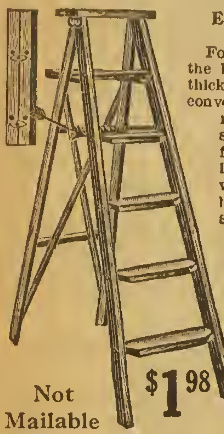
186 C 2215—Size, 32 feet. (Two 16-foot sections.) Shipping wt., 64 lbs... **$11.45**

186 C 2216—Size, 36 feet. (Two 18-foot sections.) Shipping wt., 86 lbs... **$12.45**

186 C 2217—Size, 40 feet. (Two 20-foot sections.) Shipping weight, 96 pounds. **$13.75**

For painters ladders and ladder hooks refer to blue pages in center of book.

Not Mailable



Extra Reinforced Stepladder Complete With Shelf

For family or painters' use. Made of the best seasoned pine of the proper thickness to be safe and durable, yet convenient to handle. Uprights are mortised at steps. Each step is securely nailed and strongly reinforced by a steel rod passing under it. Ends of steel rods are fitted with washers. Top step is fastened by steel brackets. Folding steel lock spreader and pail shelf.

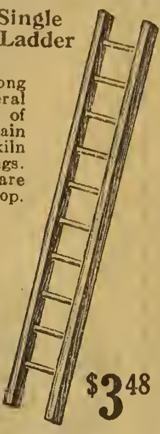
186 C 2201 — Height, 5 feet. Shipping weight, 13 pounds........ **$1.98**

186 C 2202 — Height, 6 feet. Shipping weight, 24 pounds........ **$2.48**

186 C 2203 — Height, 8 feet. Shipping weight, 24 pounds........ **$3.48**

186 C 2204 — Height, 10 feet. Shipping weight, 30 pounds........ **$4.19**

Not Mailable $1.98



High Grade Single Section Long Ladder

One section, long Ladders for general use. Well made of select straight grain uprights and kiln dried hickory rungs. These ladders are slightly tapered at top.

186 C 2220— Size, 12 feet. Shipping weight, 24 pounds. **$2.69**

186 C 2221 — Size, 16 feet. Shipping weight, 32 pounds. **$3.48**

186 C 2222 — Size, 18 feet. Shipping weight, 35 pounds. **$4.10**

Not Mailable.

$3.48

Combination Stepladder and Chair

When folded; it will serve as an extra chair in the kitchen. It may be converted quickly into a non-tipping ladder, 35 inches high. Solidly built of hardwood, varnished. Shipping weight, 15 pounds.

186 C 2249 ....**$2.75**

$2.75

Not Mailable

Stepladder Stool

This Stepladder Stool is a great kitchen convenience. May be used as a stool. Handy for reaching high shelves. Folds flat. Good grade wood, varnished. Height, about 24½ inches. Shipping weight, 5 pounds.

486 C 2246— .....**98¢**

98¢

Not Mailable

Polishes, Waxes, Carpet Cleaners

29¢

For renewing oil on polishing mops. Also an excellent furniture Polish.

1 Quart Can. Shipping weight, 3 pounds.

86 C 393 .....**29¢**

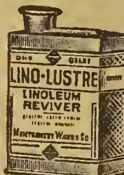
Removes Dirt and Grease

39¢ 1-Pint Can

Your furniture will look beautiful and bright after polishing with this efficient Furniture Polish.

86 C 2658—Pint Can. Shipping weight, 2 pounds........**39¢**

86 C 2759 — Quart Can. Shipping weight, 4 pounds..**65¢**



Lino-Luster

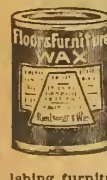
48¢

Increases the Wearing Qualities of Linoleum

A transparent reviver for use on Linoleum or Ward-o-leum. Greatly increases their wearing qualities by protecting the face of the material. Dries quickly with a hard, glossy finish. Directions on can.

86 C 880—One pint. Shipping weight, 1¼ pounds.....**48¢**

86 C 881—One quart. Shipping weight, 2 pounds......**69¢**



High Grade Floor and Furniture Wax

34¢

1-Pound Can

A high grade Wax for polishing furniture, pianos, floors, linoleums, woodwork or automobiles. Apply with a soft cloth. On the floor or linoleum a weighted floor brush may be used. Dries hard. Does not scratch or mar. One pound will cover about 250 square feet, one coat. Shipping weights, 1¼ and 4¼ pounds.

86 C 535—1-pound can.**34¢**

86 C 536—4-pound can. **$1.29**

A Powder for Cleaning Carpets and Rugs

48¢

One Pound Box

Reduce the granules to a fluid and while hot rub into the fabric. Then the fluid evaporates leaving the granules, together with the dirt, dust, and germs. Is removed with a broom or vacuum cleaner. Will sterilize, revive colors, raise the nap and prolong the durability of carpets and rugs. Shipping weight, 1¼ pounds.

86 C 883—1-Pound Box. **48¢**

No-Dust Sweeping Compound

29¢ Per Can

By using this dustless Compound when sweeping, the dust will not rise and then settle on the floor or carpet again as soon as the sweeping is done. Once you have used it you never will want to sweep without it. Put up in cartons of 3 pounds net weight. Shipping weight, 3½ pounds.

86 C 879—Carton.......**29¢**

Wardway Liquid Wax for Floors and Furniture

42¢

1 Gallon Will Cover 1,500 Square Feet

Brings out the grain of the wood and gives floors and interior woodwork a brilliant finish. No mixing required. Directions on can. Waterproof.

86 C 537—1 quart can. Shipping weight, 3 pounds **42¢**

86 C 538—½-gallon can. Shipping weight, 6½ pounds. .... **79¢**

86 C 539—1-gallon can. Shipping weight, 10½ pounds. **$1.19**

Powdered Dancing Floor Wax

25¢

Easy to apply. Simply sprinkle lightly over the floor—the feet of the dancers do the rest. Leaves a more durable finish than that obtained from average wax. Put up in 1-pound sprinkler top cans. Shipping weight, 1¼ lbs.

86 C 534— 1 - pound can..**25¢**

H. & H. Carpet Soap

For Carpets, Rugs, Silks, Woolen Goods, Curtains, etc. 3 Bars 50¢

Clean and renovate your carpets and rugs by scrubbing with H and H Soap, dissolved in hot water. Will not harm the most delicate silks. Removes paint and grease stains. Used by physicians for sterilizing instruments. Detailed instructions with each bar. Shipping weight, 3 cakes, 2 pounds.

86 C 889—3 bars for....**50¢**

Stove Supplies

Enameline Stove Polish

3 For 42¢

Five-ounce cans. Shipping weight, each 8 ounces.

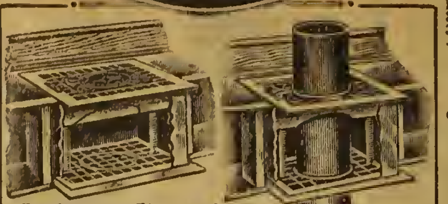
86 C 480— 3 cans.........**42¢**

Black Stove Putty

The same quality as is used by stove makers in mounting stoves, to make joints airtight.

86 C 2598— 1-pound can....**15¢** 5-pound can....**54¢**

Our complete line of Stoves are shown on pages 500 to 511.



Combination Floor and Ceiling Register and Ventilator

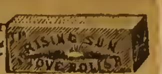
Ceiling plate is white Japanned, floor plate black. Held in position by springs. Adjustable to flooring 6½ to 13 inches; has two wings for regulating ventilation. Center is removable for 6-inch stovepipe.

486 C 2521—Size, 8 by 10 inches. Shipping weight, 10 pounds........ **$2.75**

486 C 2522—Size, 10 by 12 inches. Shipping weight, 16 pounds........ **$3.98**

Rising Sun Stove Polish

3 For 42¢



Each package contains 6 ounces. Shipping weight, 8 ounces.

86 C 482— 3 packages.....**42¢**

Stove Pipe Cleaner

6 For 58¢

Destroys soot in out-of-the way corners of the chimney. Full directions. Shipping weight, 6 cartons, 6 pounds.

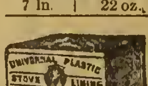
86 C 2506 — 6 cartons.....**58¢**

Stovepipe Damper

15¢

86 C 2555—Cast iron.

Diam.	Ship. Wt.	Price
5 in.	12 oz.	15¢
6 in.	16 oz.	18¢
7 in.	22 oz.	25¢



Universal Plastic Stove Linings

For repairing stoves or furnaces. Easily applied. Directions included.

86 C 2596—Box of 6 pounds net weight. Shipping weight, 6¼ pounds.......**35¢**

86 C 2596—Box of 12 pounds, net weight. Shipping weight, 13 pounds....**65¢**

Steel Stove Shovels

15¢

Extra heavy, Japanned. Length, 21⅛ inches. Shipping weight, 1½ pounds.

86 C 2556.........**15¢**

Stovepipe

Smooth black steel stovepipe. Quickly put together. Made of cold rolled steel. Crates contain 25 joints.

(We do not sell less than one crate at crate prices.)

Length of joint, 24 inches.

86 C 2572—Diameter, 5 inches. Per length..........**14¢**

486 C 2573—Crate. Shipping weight, per crate, 42 pounds. **$3.25**

36 C 2574—Diameter, 6 inches. Per length..........**16¢**

486 C 2575—Crate. Shipping weight, per crate, 42½ pounds........ **$3.65**

86 C 2576—Diameter, 7 inches. Per length..........**19¢**

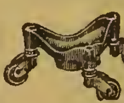
486 C 2577 — Crate. Shipping weight, per crate, 65 pounds. **$4.48**

Taper Stovepipe

Knock-Down Taper Common Stovepipe. Size, diameter, 7 inches at bottom, 6 inches at top. Shipping weight, 2⅛ pounds.

86 C 2578—Per length..**21¢**

Stove and Furniture Casters



Japanned cast iron. Diameter of caster, 1¼ inches. Shipping weight per set, 9 pounds.

86 C 2594—Set of 4..**$1.85**

Common Corrugated Elbows

Made of one single piece of smooth black iron. Shipping weight, 1 to 2 pounds.

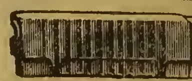
86 C 2589— Diameter, 5 inches.......**12¢** Diameter, 6 inches.......**13¢** Diameter, 7 inches.......**15¢**

Sheet Mica (Isinglass)

Clear Sheet Mica. Shipping weight, dozen sheets, 2 to 6 ounces.

86 C 2569

Size		Per Doz. Sheets
2 x3	inches	$ .20
2½x2½	inches	.27
2½x4	inches	.49
3 x4	inches	.69
3 x5	inches	.89
4 x5	inches	1.19
4 x6	inches	1.79
5 x7	inches	2.79



Adjustable Fire-Back for Cook Stoves

Cast iron. Adjusts in length from 15½ to 22 inches; and width from 5 inches to 6 inches. Shipping weight, 8 pounds.

86 C 2553.........**$1.15**

Crystallized Finish Stove Boards

$1.29

High grade sheet steel Stove Boards. Ornamental designs. Lined with a two-ply cross grain solid wood base.

Not Mailable.

Article No.	Size	Ship. Wt.	Each
486 C 2540	26x26 in.	7 lbs.	$1.29
186 C 2541	28x28 in.	8 lbs.	1.55
186 C 2542	28x34 in.	10½ lbs.	1.85
186 C 2543	30x30 in.	9½ lbs.	1.75
186 C 2544	30x38 in.	11 lbs.	2.19
186 C 2545	33x33 in.	12 lbs.	2.10
186 C 2546	36x36 in.	14 lbs.	2.45
186 C 2547	32x42 in.	15 lbs.	2.39

Extra Heavy Galvanized Iron Coal Hods

Open top, length about 18 inches. Shipping weight, 4 pounds.

486 C 2533.......**85¢**

Similar to the above but without corrugations. Size, about 18 inches. Shipping weight, 3 pounds.

486 C 2538........**54¢**

Japanned Coal Hods

40¢

Open pattern. Handy grip on back to facilitate pouring coal. Size about 18 inches across top. Black Japanned.

Shipping weight, 2½ pounds.

486 C 2536........**40¢**

Conveniences That Lighten Housework

Handled Dust Pan No Stooping

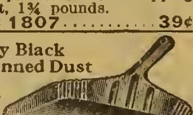
39¢

Almost entirely covered so dust will not spread. Contents will not spill out when pan is lifted. Shipping weight, 1¾ pounds.

86 C 1807..........**39¢**

Heavy Black Japanned Dust Pan

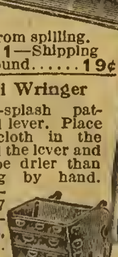
19¢



The high back prevents dust from spilling.

86 C 1821—Shipping weight, 1 pound......**19¢**

Mop Pail Wringer



New no-splash pattern. Wood lever. Place the mop cloth in the hopper, pull the lever and cloth will be drier than when wrung by hand. Size of hopper, 6 by 7 inches. Shipping weight, 10 pounds.

486 C 458 —

$2.48

Fits Any Pail

85¢

Self-Wringing Mop

Heavy woven cotton Mop, 13½ in. long when doubled. Easily wrung.

Wrung by sliding metal frame down into mop and turning handle; 48-inch handle. Ship. wt., 2¼ pounds.

86 C 399..........**85¢**

Mop Wringer Complete With Pail

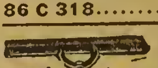
One of the most convenient Mop Wringers made. Made almost entirely of metal Japanned in black. Hardwood rolls are 12 inches long. It may be slipped out of bucket for other uses. The 15-quart pail is of extra heavy galvanized iron. Ship. wt., 20 lbs.

186 C 365—Complete. **$2.48**

Shoe Scraper With Brushes

Cleans the bottom and sides of the shoe in one operation. Rust-resisting, Japanned frame. Fiber bristles. Width, 6⅜ inches. Shipping weight, 1½ pounds.

86 C 318.............**29¢**



Rubber Window Cleaner

24¢

Rubber edge, metal frame. Width, 12 inches. Pole not included. Shipping weight, 1 pound.

86 C 1893.............**24¢**

Window Brush

Eight-inch back, well filled with 2¼-inch soft bristles. Shipping weight, 10 ounces.

86 C 413.............**59¢**

Mop Holder

Holds the cloth firmly. Adjustable to a large or small mop cloth. Non-rustable. Wood handle, 48 inches long. Shipping weight, 1½ pounds.

86 C 457.............**24¢**

For Galvanized Pails, See Page 532.

Sizes of above merchandise may vary slightly from those given

Thuro Electric VACUUM CLEANER Has Every Improved Feature

Since the invention of the Electric Vacuum Cleaner, housework has lost one of its greatest annoyances—Dust. The more efficient your vacuum cleaner, the more dustless will be your rugs, curtains and furniture; the purer will be the air you breathe, and the easier will be your housework.

You will agree with us, after you have tried the Thuro Electric Vacuum Cleaner, that it is a most effective dirt remover. It is the result of years of study and experimenting. **Its name tells its story.**

The Thuro removes every particle of dirt and grit from your rugs and gathers it safely into the dustproof bag. It leaves your rugs fresh, clean and bright. Compare the Thuro with any vacuum cleaner on the market, regardless of price. If you are not entirely convinced that it is one of the best, return it to us.

Suction.—There is a straight passage of air from the wide mouth of the nozzle to the center of the cast aluminum fan. That is what makes the Thuro clean so well. It has 20 per cent more suction than the average vacuum cleaner

A simple device on the floor wheels revolves the brush with just enough force to dislodge the embedded germ-laden dirt and lint. The suction does the rest. **The Thuro will add years to the life of your rugs.**

Construction.—The body is of one piece, cast aluminum. The swivel rear wheel makes it easy to swing the Thuro in any direction. The dust bag is easily removed for cleaning.

Motor.—The ⅙ horsepower motor is air cooled and has self-feeding oil wells. The fan keeps the motor from over-heating.

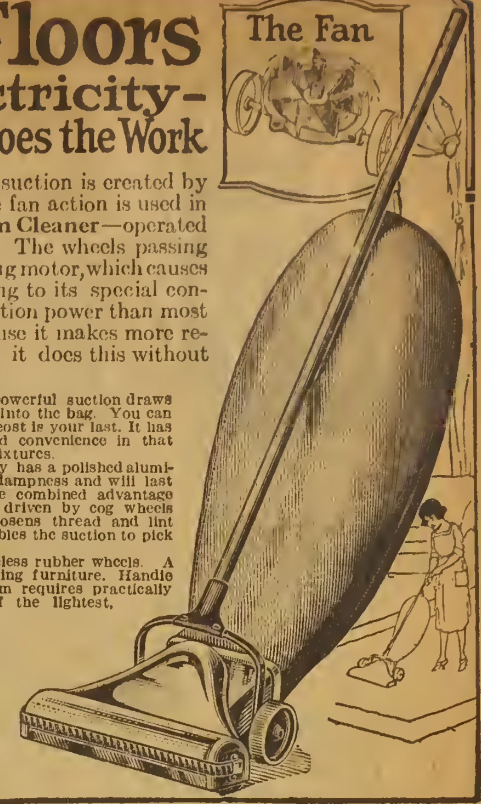
The Thuro runs equally well on either direct or alternating current, 100 to 130 volts, 60 cycle or less. Shipping weight, 15 pounds.

486 C 572................**$34.95**

The Thuro for Farm Lighting Plants

Equipped with motor of 32 volts, for homes where farm lighting plants, such as Powerlite or Delco are in use. Shipping weight, 15 pounds.

486 C 573................**$35.95**



Cleaner Floors Without Electricity- No Exertion-The Fan Does the Work

In all electric vacuum cleaners, suction is created by a revolving fan. Exactly the same fan action is used in our **Improved Wardway Vacuum Cleaner**—operated **without the aid of electricity.** The wheels passing over the floor propel an easy running motor, which causes the powerful fan to revolve. Owing to its special construction, this fan has greater suction power than most electrically driven machines because it makes more revolutions per minute. Best of all it does this without any special exertion on your part.

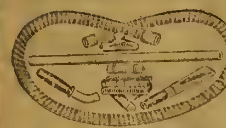
Easy Running.—Just a push and the powerful suction draws every particle of dirt, lint, ashes and grit into the bag. You can use it every day without tiring. Your first cost is your last. It has what many housekeepers consider an added convenience in that there are no cords, plugs, sockets or other fixtures.

Construction.—Our Improved Wardway has a polished aluminum body with rust proof parts which defy dampness and will last for years. Be sure to note that you have the combined advantage of a swiftly revolving 12-inch bristle brush driven by cog wheels and a powerful air suction. The brush loosens thread and lint which cling to the surface of rugs and enables the suction to pick them up readily.

Outstanding Features.—Runs on noiseless rubber wheels. A protective rubber bumper prevents marring furniture. Handle stands upright when not in use. Mechanism requires practically no oiling. Weighs but 7½ pounds—one of the lightest, easiest running machines on the market.

Costs Only About Half What You'd Expect to Pay.—You need no longer do without a vacuum cleaner because of the high price or because you do not have electricity. Our improved Wardway costs but little, considering that it is a really efficient vacuum sweeper. Its simple mechanism means a low manufacturing cost and we give you the benefit of this saving.

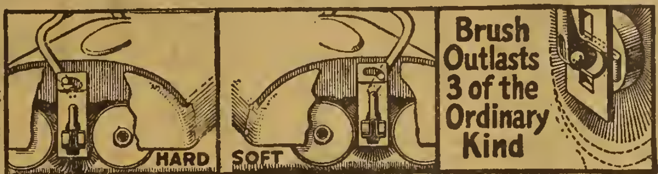
86 C 516—Shipping weight, 15 pounds................**$19.98**



Thuro Electric Vacuum Cleaner Attachments

Specially designed for the cleaning of bedding, upholstery, draperies, clothing, furs and the interior of automobiles. Set consists of one 8-foot rubber hose; one 30-inch black fiber extension tube; one 7-inch aluminum nozzle; one hollow library brush and one blower nozzle Shipping weight, per set, 5 pounds.

486 C 574—Complete set................**$8.65**



Bissell's Grand Rapids Carpet Sweeper

$5.00

We Pay the Postage on This Sweeper

One of the best Carpet Sweepers manufactured. Is noiseless and smooth running and does excellent work. Strongly made of choice woods with nicely polished mahogany finish. Fitted with patent ball bearings. All metal trimmings are Japanned.

486 C 459—Price, postage paid................**$5.00**

Genuine Bissell's Standard Carpet Sweeper

$3.98

An easy running, low priced Carpet Sweeper. It will give long and splendid service. Mahogany finished wooden case. Has braid covered bumper to protect furniture and woodwork. All metal parts are nicely Japanned. Small lever opens both dust pans at one time. Shipping weight, 8 pounds.

486 C 860................**$3.98**

Note the Features of the Wardway Illustrated Above

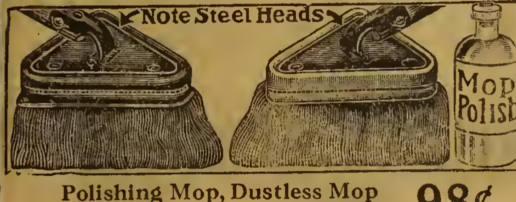
$2.48

Do Not Judge the Wardway by Its Price

Works as Efficiently as Any Carpet Sweeper Made

Why pay more when the Wardway will clean your rugs as efficiently as any similar carpet sweeper made? Run it face forward over your floor, and it lightly brushes up surface dirt. Then reverse the sweeper—instantly it forces the bristles down into the rug, removing the injurious embedded dirt. The extra high quality Imported Bristle Brush may be dropped to three different levels, renewing its effectiveness three times. This feature, which more than doubles the life of the Wardway, is found in no other make. Full face of brush (not merely tufts) is always in direct contact with the rug. Has self-adjusting rubber tired wheels. Only 4½ inches high, 9 inches long and 13¾ inches wide, over all. Cold-rolled, reinforced steel case has baked-on enamel surface of olive drab with green trimmings. Rounded corners protect the furniture. Double sidewalls make it absolutely dustproof. Nothing on sides to break off or loosen. Shipping weight, 5 pounds.

486 C 400................**$2.48**



Polishing Mop, Dustless Mop and 8 Ounces of Oil Polish — 98¢

Keep your floors bright and new by using the Polish Mop once a week and the dry Dustless Mop daily. When dirty the mops may be washed in warm suds. The hinged handle always keeps the mop flat on the floor even when cleaning under furniture. Mops do not scratch or mar Set consists of one oil mop, one dust mop, two long handles and 8 ounces of oil polish. Shipping weight, per set, about 6 pounds.

486 C 363—Complete set................**98¢**

Polishing Mop — 59¢

Renews the luster on linoleums or varnished floors and does not scratch or mar. May be washed and renewed with polish. Fitted with hinged handle to work in all directions. Full instructions included. Ship. wt., 3 lbs.

486 C 360................**59¢**

Dustless Mop — 59¢

Chemically treated to pick up instead of spreading the dust. Not treated with oil. May be washed with soap and water. The 54-inch handle is hinged. Shipping weight, 3 pounds.

486 C 366................**59¢**

Chamois Skins

Prepared by the French Process

May Be Washed without Injury

For cleaning mirrors or any glassware; polishing highly finished furniture and automobile bodies. It is tanned and dressed by the French process so it may be washed and cleaned without affecting its original softness. Shipping weights, 4 to 8 ounces.

86 C 560	—Size, about 11 by 13½ inches	$ .19
86 C 561	—Size, about 13 by 16 inches	.29
86 C 562	—Size, about 15 by 20 inches	.57
86 C 563	—Size, about 18 by 24 inches	.85
86 C 564	—Size, about 23 by 26 inches	1.15

Gem All-Metal Easy-Running Vacuum Sweeper

$5.98

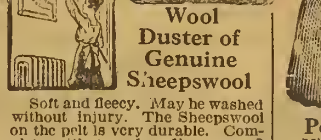
Made Entirely of Metal

Mahogany Finish

This Sweeper does most efficient work. It not only picks up the lint and surface dirt, but also sucks up the deeply embedded dust which is never reached with a broom or ordinary carpet sweeper. Equipped with three bellows, which insures strong even suction. Automatic brush adjustment keeps the brush always at the proper height from the floor. Brush is easily thrown out of action by means of the small lever. Entire case is of metal, enameled to give it the appearance of mahogany. Felt pad and rubber bumpers prevent it from marring furniture. Dust bag is easily removed for cleaning. Height, 6 inches. Shipping weight, 18 lbs.

486 C 489................**$5.98**

Wool Duster of Genuine Sheepswool



Soft and fleecy. May be washed without injury. The Sheepswool on the pelt is very durable. Complete with two handles—one 8 inches long, the other 5 feet long. Size of duster, about 7 by 12 inches. Shipping weight, 13 ounces.

486 C 381................**89¢**

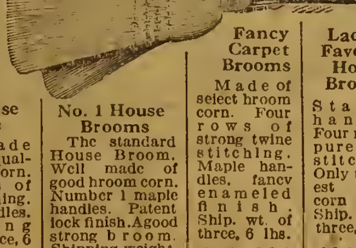
Polishing Mop

Nickel-plated reservoir holds polishing oil which is absorbed by mop as needed. Has 4-foot handle. Ship. weight, 2½ pounds.

486 C 368................**89¢**

Brooms

For 3 $1.29



No. 2 House Brooms

Well made from good quality broom corn. Four rows of twine stitching. Smooth handles. Shipping weight of three, 6 pounds.

486 C 329—3 for ..**$1.29**

486 C 866—Each......**45¢**

No. 1 House Brooms

The standard House Broom. Well made of good broom corn. Number 1 maple handles. Patent lock finish. A good strong broom. Shipping weight, of three, 6 lbs.

486 C 320—3 for ..**$1.48**

486 C 867—Each......**53¢**

Fancy Carpet Brooms

Made of select broom corn. Four rows of strong twine stitching. Maple handles, fancy enameled finish. Ship. wt. of three, 6 lbs.

486C321 3 for......**$1.94**

486C868 Each..**67¢**

Ladies' Favorite House Brooms

Stained handle. Four rows of pure fiber stitching. Only the finest broom corn used. Ship. wt. of three, 6 lbs.

486C325 3 for......**$2.15**

486C869 Each ..**75¢**

Black Horsehair Floor Brush with Handle — 98¢

Oil finished hard wood block with double sockets so brush may be used on either side. Each brush has a 54-inch handle

Article Number	Size	Ship. Wt.	Each
86 C 402	12 in.	2¼ lbs.	$ .98
86 C 403	14 in.	2½ lbs.	1.19
86 C 404	16 in.	2¾ lbs.	1.39

Floor Waxing and Polishing Brush — $2.25

4½-Foot Handle

Iron parts in aluminum finish. Bound with cord to protect woodwork. Bristles, ⅞ inch long. Shipping weight, 15 and 23 pounds.

486 C 532—Family size, 4½ by 8½ by 3⅝ inches................**$2.25**

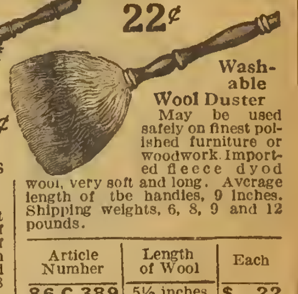
486 C 533—Large size, 9¾ by 4½ by 4 inches................**$2.98**

39¢

Sanitary Dustless Duster

Chemically treated, it absorbs dust instead of scattering it. Made of good quality fiber cotton on a wire frame. Wood handle. Total length, 18 inches. Shipping weight, 20 ounces.

86 C 376................**39¢**



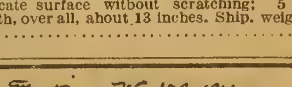
22¢

Washable Wool Duster

May be used safely on finest polished furniture or woodwork. Imported fleece dyed wool, very soft and long. Average length of the handles, 9 inches. Shipping weights, 6, 8, 9 and 12 pounds.

Article Number	Length of Wool	Each
86 C 389	5½ inches	$ .22
86 C 390	6½ inches	.35
86 C 391	7½ inches	.59
86 C 392	9 inches	1.19

Bristle Dusting Brush — 49¢



Made of finest quality mule tail bristles. May be used on the most delicate surface without scratching; 5 rows of bristles. Length, over all, about 13 inches. Ship. weight, 8 oz.

86 C 865................**49¢**

Sizes on above Merchandise may vary slightly from those given

Improved Triumph Electric Washer

Equipped With Extra Large Wringer-12 Inch Rollers

$5.00 Down 30 Days Trial

IF you know the cost of the average copper tub electric washing machine, you will appreciate the wonderful value we offer in the Improved Triumph.

You will find it not only economical to purchase, but equally economical to operate. An entire tubful of clothes may be washed in ten or fifteen minutes at the cost of only a few cents for electricity. It is practically noiseless and the easiest running electric washer obtainable at the price. Some of its features are:

Corrugated Copper Tub. Thoroughly tinned on the inside. It is impossible for it to rust and soil the clothes. There is no part of the tub to lift out and clean after the washing is completed.

Dolly Type Washer. Rapidly reverses, forcing the hot suds through the clothes so that it quickly removes every speck of dirt. **It does not rub the clothes** and therefore does not wear them out.

Swinging Reversible Wringer. Is driven by electricity. Mounted on a strong supporting post. Has extra large 12-inch rollers which will wring the heaviest bedspreads as well as the lightest fabrics.

SPECIAL Lever permits swinging and locking of wringer in any desired po tion. Easily operated. A slight pressure of the finger shifts it from one po tion to another. **An extra wide reversible drainboard** prevents w from running over on floor.

Splashproof Motor has ample power to operate both washer and wring at the same time.

Bronze Faucet at side for draining tub. Hose may be attached if desired.

Steel Extension Frames hold two tubs and a clothesbasket. May be folded against side when not in use so that complete machine occupies no more space than an ordinary 1-tub machine.

Easy Rolling Steel Casters permit ready moving from place to place.

Read Our 30-Day Trial Offer

The best way to test a washing machine is to use it in your own home, washing your own clothes. Send for our Improved Triumph Electric. Examine its bright copper tub, the swinging reversible wringer, and see for yourself how quickly and easily it will make your linen fresh and snow white. Try it for 30 days. If it should fail to please you during that time, write us for return shipping instructions and we will refund your deposit and the freight charges you paid.

Improved Triumph Engine Drive Power Washer

Improved Triumph Engine Drive Washer, platform model; the platform measures 24 inches wide and 43 inches long—large enough to hold two tubs and basket. Complete with all-position wringer and 10-inch drive pulley. Should not be operated faster than 200 revolutions per minute.

286 C 157—Copper tub.
Easy Payment Price **$64.95**
($5.00 with order and $10.00 a month)
Cash Price..... **$57.50**

286 C 161—Same as above, except with wood tub.
Easy Payment Price **$54.95**
($5.00 with order and $10.00 a month)
Cash Price..... **$47.95**
Shipping weight, 297 pounds.

Improved Triumph Electric Power Washer

Improved Triumph Electric Power Washer, platform model, with high grade 110-volt alternating current motor, 60 cycles; 10 feet reinforced cord and plug to attach to ordinary electric light socket; includes all-position wringer. Platform measures 24 inches wide by 43 inches long—large enough to hold two tubs and a basket.

286 C 152—Copper tub.
Easy Payment Price..... **$91.50**
($5.00 with order and $10.00 a month)
Cash Price..... **$79.95**

286 C 155—Same as above, except with wood tub.
Easy Payment Price..... **$81.50**
($5.00 with order and $10.00 a month)
Cash Price..... **$69.95**
Shipping weight, 295 pounds.

Use Special Contract Order Blank on Page 531
Shipped from Factory in Northern Illinois

Compact

Above shows machine with bench folded up when not in use. Takes up no more space in your kitchen than an ordinary sized wash tub. The strong steel extension frames are hinged and when not in use may be folded up close against tub, out of the way.

Triumph Washer-Electric or Engine Drive

$5.00 Down 30 Days Trial

THE original loveliness of fluffy wool blankets and snow white linens may be retained if you launder them with our Triumph Washer. The Triumph cleanses thoroughly. The dolly plunger forces the hot suds back and forth through every fiber of the clothes, and quickly loosens the dirt without wearing out the fabric or injuring the clothes in any way.

The machine is provided with a special disc for delicate clothes, and you can launder your filmiest blouses and laces without fear of spoiling them.

Disc for Delicate Clothes

The Famous Dolly Also Included

Thirty-Day Trial Offer

The Triumph Two-Tub Model is built to wash in large quantities. You can wash clothes in both tubs and use the wringer at the same time. Simple, easily operated levers enable you to use either tub alone or only the wringer if desired.

In order to give you an opportunity to test the Triumph Electric or Engine Drive Washer, and prove to yourself how easily, quickly and satisfactorily it washes your clothes, we allow 30 days' trial. If the washer does not please you, write us for return shipping instructions and we will refund the amount you paid, including freight charges.

Triumph Engine Power Washer

Two-tub model, complete with wringer and 10-inch drive pulley. Should not be operated faster than 200 revolutions per minute. Complete with one-dolly washer and one disc washer.

186 C 133—Wood tubs. Easy Payment Price ($5.00 with order and $10.00 a month) **$67.50**
Cash Price..... **59.85**
Shipping weight, 200 pounds.

Use Special Contract Order Blank on Page 531

Triumph Electric Power Washer

Two-tub model. Complete with high grade 110-volt alternating current motor, 60 cycles; 10 feet of reinforced cord and plug to attach to ordinary electric light socket, and wringer. Easy rolling casters. **State voltage, current and cycles when ordering.**

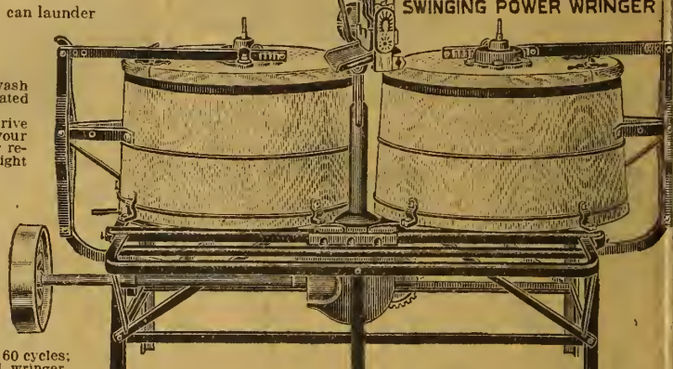
186 C 134—Wood tubs. Easy Payment Price ($5.00 with order and $10.00 a month) **$104.50**
Cash Price..... **89.95**
Shipping weight, 325 pounds.

Use Special Contract Order Blank on Page 531

The Two-Tub Triumph

For Extra Large Washings

SWINGING POWER WRINGER



Shipped from Chicago

Platform Holds 2 Wash Tubs

Thuro Power Vacuum Washer

$5.00 Down 30 Days Trial

The Force Which Dirt Cannot Resist
The Vacuum Cup

CONVENIENCE is the outstanding feature of this new Thuro Vacuum Washer. By the vacuum method it washes clothes spotlessly clean in about one-fourth the time it takes to wash them by hand. Has folding frame which will hold two tubs. The wringer swings in any direction and has a safety clutch lever which starts or reverses it instantly.

Tub is of the best water-resisting Southern Cypress. Inside is corrugated. Special screw plug type water drain with rubber hose attachment.

To let you see for yourself how much lighter Thuro will make your washday, we will gladly send it to your home for 30 days' trial. Send only $5.00 now. Use the Thuro for 30 days. If it does not prove satisfactory, write us for shipping instructions and we will refund the amount you paid and all the freight charges.

When ordering electric machines be sure to give voltage, current and number of cycles. Machines carried in stock with 110-volt electric motor for alternating current, 60 cycles. Motors for other voltages and currents furnished at an additional charge of $5.00 to $10.00. Electric machines are fitted with casters.

How It Washes So Quickly

When the power is turned on, the vacuum cup is set in motion as soon as the lid is closed and stops when it is opened. The whirling vacuum cup is dome shaped and galvanized to prevent rust. Produces a positive cleansing current that removes every particle of dirt and cannot harm the most delicate fabrics.

Thuro with Pulley for Engine Drive

Should not run faster than 200 revolutions per minute. Shipping weight, 225 pounds.

186 C 168—Platform model; folds up. Easy Payment Price **$58.50**
Cash Price **49.95**

Use Special Contract Order Blank

Thuro with Electric Motor, 110 volts, alternating current, 60 cycles, complete with platform and mounted on easy running casters. **Be sure to give voltage, current and cycles when ordering.**

186 C 169—Easy Payment Price ($5.00 with order and $10.00 a month) **$91.50**
Cash Price..... **79.95**
Shipping Weight, 250 pounds.

Shipped from Stock at Chicago

The Water Queen Electric

Eccentric Cylinder Action

THE Water Queen washes without a rub! This feature has won for it universal popularity. Instead of rubbing the life and beauty from your clothes, it plunges them in and out of the nsing suds until every particle of dirt is removed. The cylinder ys from side to side with each revolution.

s action, together with its revolving ion, gives the Water Queen remarkable nsing power. The stubbornest dirt ens its hold from the coarsest or finest ric. The octagonal cylinder is of hard ple; with smooth perforations. It meas- 19 by 16 inches, and holds six sheets, lve shirts or their equivalent.

$5.00 Down 30 Days Trial

The Minnehaha Electric

Powerful Figure 8 Action

THE famous figure eight action, so universally recommended, has made the Minnehaha a popular favorite with our customers. The copper tub, resting on a cradle, is swung back and forth fifty-eight times a minute—fifty-eight times in every minute a perfect figure eight of hot soapy water sweeps through the tossing garments, loosening every particle of dirt and making the clothes snow white. There practically is no wear on the clothes as in hand rubbing.

All Metal Cahlnet. The cabinet is nicely finished in battleship gray; it completely encloses the mechanism, and makes it perfectly safe.

Our Easy Terms

Our Easy Terms. Simply fill out and send us the order blank at bottom of page. Enclose $5.00 with order. We will then ship you the power washing machine you choose, complete with power wringer. If after 30 days' trial you decide to keep it, send us $10.00 a month until the full purchase price has been paid.

In a short time, almost before you realize it, the machine will be paid for in full. While you are sending the Easy Payments, the machine really pays for itself in the time, the clothes, and the labor it saves.

Water Queen Electric

Motor. The 110-volt 60-cycle alternating current motor has ample power to run machine and wringer at the same time.

An automatic Safety Clutch prevents the motor or fuse from burning out should the machine become overloaded.

Gravity Wringer. The wringer is tilted slightly, as shown in illustration. This feature eliminates the possibility of clothes becoming entangled on the rollers. A safety release removes all pressure from rolls in case of emergency.

The wringer is reversible and may be swung into four positions. It is locked with a convenient lever. High quality rubber rolls, fully enclosed cogs. Adjustable to wring dainty laces or heavy blankets. It may be started, stopped or reversed as desired.

Convenient Drain. The Water Queen is easily drained. A pail may be placed under the faucet or it may be emptied by a hose, as the faucet is threaded for standard hose coupling.

The Water Queen occupies floor space measuring 25½ by 25½ inches. Ten feet of reinforced cord and attaching plug are included with each machine.

Water Queen with Armco Iron Tub

The toughest metal of its kind known. Will not rust like ordinary galvanizing.

186 C 3000—Easy Payment Price **$110.50**
($5.00 with order and $10.00 a month.)
Cash Price **94.95**

Water Queen Electric with Copper Tub

Heavy gauge, high quality copper. Will give a lifetime of satisfactory service.

186 C 3001—Easy Payment Price **$126.50**
($5.00 with order and $10.00 a month.)
Cash Price **109.95**

Shipping weight, 210 pounds
Shipped from Chicago

Use Special Contract Order Blank Below

Minnehaha Electric

Solid Copper 12-Shirt Tub. Capacity of tub, 6 to 7 sheets or 12 shirts. Tub may be removed easily should occasion require it. Both the lid and the body of the tub are ribbed to insure strength. Interior is heavily retinned, making tub rustless and non-corrosive. No cracks or crevices to collect dirt.

The Motor. Motor has sufficient strength to operate both wringer and washer at the same time; one-fourth horsepower—waterproof. Made by a manufacturer of national reputation.

The cost to operate averages 2 cents per hour. You can see how cheap this is when you consider that you can easily wash about four tubs of clothes in that time.

Adjustable Wringer. Has large reversible 12-inch rollers. Equipped with quick release safety control lever. Adjustable to any position, and may be operated while clothes are being washed. This enables you to wring from tub to rinse water, then from rinse water to bluing water, and from bluing water to basket without moving machine or stopping the washer.

Stationary Base, Easy Rolling Casters. See illustration at the right. A touch of the toe on this device instantly changes it from the easy rolling casters to rigid iron feet.

Water Drain. Water is drained completely out of tub through faucet located directly before door which opens in front of machine.

Control. Two simple levers control both the washing and wringing operations.

Size. Cabinet measures 38 inches in length, 23 inches in width, and 35 inches in height. Height to top of wringer, 53 inches.

186 C 559—Easy Payment Price **$126.50**
($5.00 with order and $10.00 a month.)
Cash Price **109.95**

Shipping weight, crated, 215 pounds
Shipped from Chicago

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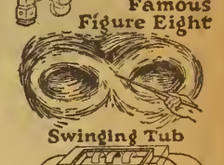
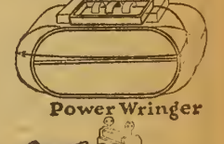
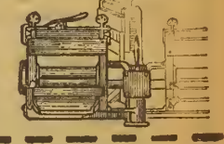






rticle o.	Name of Machine			Price	If you are ordering an electric machine, please check off the questions in next line; otherwise disregard next line. Your Electric Light Company will be glad to help you.					
hat oltage?	32	110	220	What Current?	Direct	Alternating	If Alternating, What Cycle?	25	40	60	125	Special Voltage furnished at an Extra Charge of $5.00 to $10.00.

our Name	R. F. D.	Box No.	Street and No.
ost Office	County		State
hipping Point	County		State

Montgomery Ward & Co., Chicago, Ill. Date.....192..

Please ship to me on THIRTY (30) DAYS' FREE TRIAL the above merchandise upon the terms herein mentioned:

I enclose herein $..... as a guarantee of my good faith, which sum you may apply as a first payment on the purchase price if I decide to keep the merchandise, and which is to be returned to me if I decide not to keep the merchandise.

Thirty (30) days after receipt of the merchandise I will send you a second payment of $..... and a similar payment on the same day of each succeeding month until the full purchase price is paid.

YOU ARE TO CHARGE ME NO INTEREST.

Thirty (30) days is sufficient time in which to satisfy myself of the value of the merchandise, and if I decide to return it I will write you within that time for return shipping instructions, and I will promptly return the merchandise in good order, at your expense, and send you bill-of-lading, upon receipt of which you are to refund to me the amount enclosed herein, also transportation charges which I shall have paid.

Title to this merchandise shall remain in you until it is fully paid for, and until that time I have only the right of possession and use.

Sign your name here _____

My Occupation or Business is	Married or Single	My Age is
I have lived here since	If less than five years give former address	

Please Give References. Banks or Business Houses Preferred

Name	Address	Business or Occupation
1.		
2.		

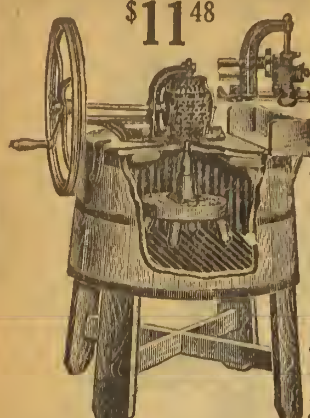
Use this Order Blank for Time Payment on Washing and Sewing Machines

The Old Faithful

The Simplex Rotary Washer

May be Operated by Motor, Flywheel Being Grooved for Belt

$11.48



Washes on the Dolly Principle

One of the easiest running Rotary Washers because of its roller-bearing gear and heavy flywheel. The covered cogwheels make it perfectly safe.

Washes by the dolly or dasher method. Has grooved pulley wheel.

Fitted with telescope dasher post so that, with a full tub, the dasher post does not project through the dolly to tear or injure the clothes. Natural finish, waterproof cypress tub with strongly braced legs and wringer board.

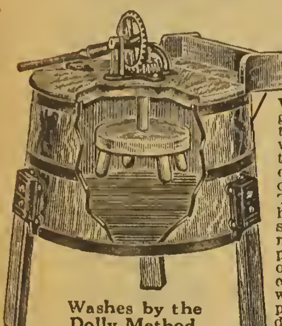
Capacity, 8 shirts. Shipping weight, 85 pounds.

186 C 143 .... **$11.48**

Shipped Promptly from Chicago

Ward's Improved Reliable Washer

$8.98



Washes by the Dolly Method

Does very thorough work especially for a washer so reasonably priced. The Improved Reliable Washer swirls the garments through the hot, soapy water so rapidly that the dirt is quickly and thoroughly removed. This swirling, however, is so skilfully done as to make almost impossible any wear or tear on the clothes. Tub is of waterproof cypress. Inside diameter, 23 inches at bottom, 20¾ inches at top. Height, 12½ inches. Shipping weight, 60 pounds.

186 C 164 .... **$8.98**

Shipped Promptly from Chicago

The Famous Whirl Washer

Our Lowest Priced Machine

$4.98

Works by the Same Principle As the Old Faithful

It is impossible to appreciate the good work done by this simple, low priced Washer unless you try it out yourself. Simply work the handle back and forth. Operates on the same principle as the Old Faithful. Both the lower washboard and upper rub board are well constructed of water-resisting wood. When emptying the tub all you do is to lift the upper rub board out and it rests on a bracket. The bottom rub board may be taken out for cleaning.

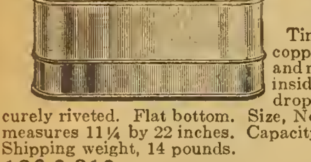
Width, 17½ inches. Length, 28 inches. Depth, 13 inches. Shipping weight, 50 pounds.

186 C 160 .... **$4.98**

Shipped Promptly from Chicago

Heavy Tin Boiler with Copper Bottom

$2.39

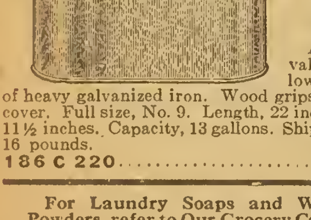


Tin body, heavy copper bottom and rim, tinned on inside. Metal drop handles, securely riveted. Flat bottom. Size, No. 9. Bottom measures 11¼ by 22 inches. Capacity, 13 gallons. Shipping weight, 14 pounds.

186 C 219 .... **$2.39**

Heavy Galvanized Iron Boiler

$1.69



Wood Grip Handle

An excellent value for the low price. Made of heavy galvanized iron. Wood grips. Strong tin cover. Full size, No. 9. Length, 22 inches. Width, 11½ inches. Capacity, 13 gallons. Shipping weight, 16 pounds.

186 C 220 .... **$1.69**

For Laundry Soaps and Washing Powders, refer to Our Grocery Catalogue Sent Free on Request

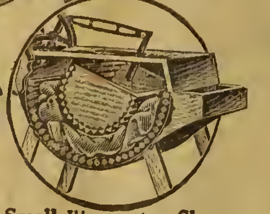
The Old Faithful

Grooved flywheel makes it possible to run machine by motor if desired.

Wringer is not included. Any standard wringer may be used. Tub is made of Louisiana red cypress, the best wood for washing machines. It neither warps, leaks nor rots. Varnished.

Fitted with Easy Rolling Casters

$17.48



Small Illustration Shows Washing Principle

Because of its reliability, the Old Faithful has been a favorite in the homes of American Housewives for more than 25 years. It is practically a washboard operated by machinery. Instead of stooping over a washtub and rubbing by hand, you merely move the lever back and forth, washing the clothes spotlessly clean. At every movement of the lever the two washboards work in opposite directions. The daintiest garments may be washed in the Old Faithful without danger of tearing. The high speed flywheel is operated by the cogwheels. Starts and runs very easily due to the long double bearings on which it works.

The gears are all protected for safety. All hardware and castings are galvanized to prevent rust. Height, 30¾ inches. Length, 35 inches. Width, 20¼ inches. Capacity, 12 shirts or their equivalent. Shipping weight, 120 pounds.

186 C 148 .... **$17.48**

Shipped Promptly from Chicago

Our Veribest High Speed Washer

$15.45

May Be Operated by Motor As Flywheel is Grooved For Belt

Recommended to those who prefer a dolly type Washing Machine. Its speed and ease of operation, combined with substantial quality, insure lasting satisfaction.

One noteworthy feature of this machine is the adjustable handle. It may be placed in six different positions making it possible to sit or stand while washing.

The high speed flywheel makes 300 revolutions per minute. Flywheel is mounted on a steel shaft which runs on long double bearings, making it operate very smoothly.

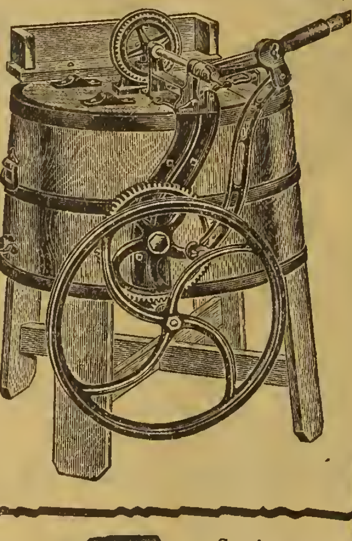
The Dolly Type

If operated by electric motor the lid may be opened or closed while motor is running.

The tub is of water-resisting cypress and has a capacity of 8 shirts. Shipping weight, 90 pounds.

186 C 162 . **$15.45**

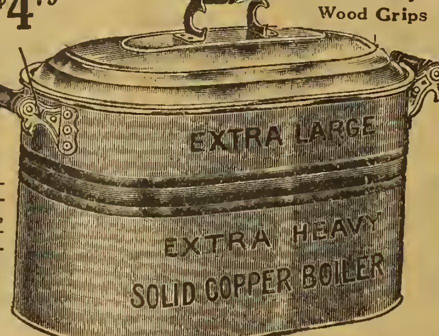
Shipped from Chicago



Our Best Boiler Extra Heavy Copper

$4.79

Stationary Wood Grips



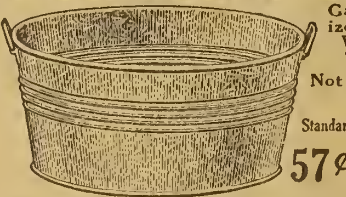
One of the strongest Boilers made. Extra heavy, solid copper body polished outside, heavily tinned inside. Does not discolor clothes. Top edge is reinforced by a steel wire rod; sides are corrugated making the boiler exceptionally rigid. It is leakproof, being double seamed and soldered. Cover is made of seamless retinned steel.

Size of bottom, 23 by 12½ inches. Capacity 14½ gallons. Actual weight, 10½ pounds. Shipping weight, 18 pounds.

186 C 215 .... **$4.79**

Galvanized Iron Wash Tubs

Not mailable



Standard 57¢

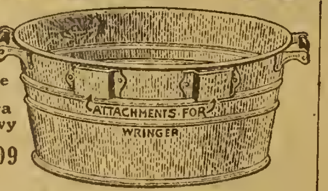
Malleable iron drop handles. Diameter, 20 inches. Depth, 10½ in. Ship. wt., 8 lbs.

186 C 285 .... **57¢**

186 C 286—Diameter, 22⅜ inches. Depth, 10¾ inches. Shipping weight, 10 pounds. **64¢**

186 C 287—Diameter, 24 inches. Depth, 10½ inches. Shipping weight, 12 pounds **74¢**

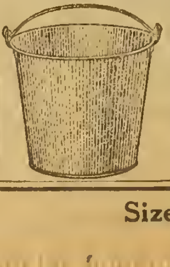
Extra Heavy $1.09



186 C 283—Heavy rigid handles. Top diameter, 22 inches. Depth, 10½ inches. Shipping weight, 10 pounds **$1.09**

186 C 284—Top diameter, 24 inches. Depth, 10½ inches. Shipping weight, 11 pounds **$1.19**

Standard Grade Galvanized Pails



Full weight, galvanized after they are made.

486 C 290

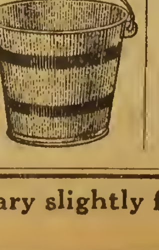
Capacity	Ship. Wt.	Each
12 qts.	2½ lbs.	22¢
14 qts.	2¾ lbs.	25¢

Extra Heavy Grade Galvanized Pails

Galvanized after being made. Heavy wire handle, with wood grip.

486 C 289

Cap.	Ship. Wt.	Each
12 qts.	4 lbs.	44¢
15 qts.	5 lbs.	53¢



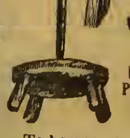
The Water Queen Washer

$16.95

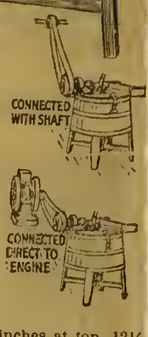
For Engine Drive

May Be Operated by Hand in Case of Emergency

Washes on the Dolly Principle



Works on the Dolly Principle



To be operated direct from gasoline engine or countershaft.

Equipped with belt shift to throw the power on tight or loose pulley. When on loose pulley cover may be opened or closed without stopping engine. Tub is made of Southern cypress. Guaranteed for five years against breakage or defective castings (except through misuse).

Inside measurements of tub, 23½ inches at bottom, 19¾ inches at top. 12¼ inches deep. Equipped with 8-inch pulley to run 240 revolutions per minute. Shipping weight, 100 pounds.

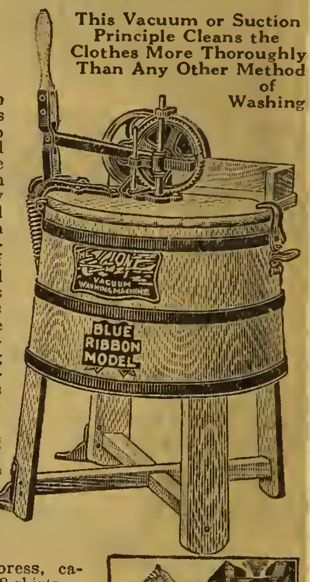
186 C 183 .... **$16.95**

Shipped Promptly from Chicago

Cyclone Blue Ribbon Vacuum Washer

$15.95

This Vacuum or Suction Principle Cleans the Clothes More Thoroughly Than Any Other Method of Washing



A group of three cups plunges up and down and at the same time rotates in such a way as to bring all the clothes in the tub within range of its powerful suction. This removes every particle of dirt without harming the most delicate garments.

The three vacuum basins are smooth and of nonrustable iron.

Tub is made of water-resisting Southern cypress, capacity about 8 shirts or 4 sheets. Diameter of tub, inside, 21 inches. Height to lid, 29 inches. Shipping weight, 90 pounds.

286 C 136 . **$15.95**

Shipped from Factory in Northern Illinois

High Grade Copper Boiler

$3.79

Wood Grip Handles

Made of heavy solid copper, polished outside, tinned inside. Does not discolor clothes. Steel wire rods and corrugations on sides add to strength. Double seamed and soldered, leakproof.

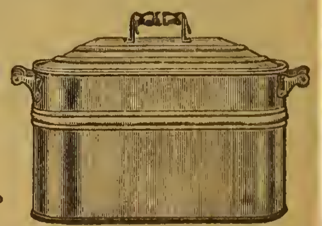
186 C 216—Size No. 8. Bottom, 10½ by 20½ inches. Actual weight, 8 pounds. Capacity, 10½ gallons. Shipping weight, 15 pounds **$3.79**

186 C 217—Size No. 9. Bottom, 11¼ by 22½ inches. Actual weight, 9 pounds. Capacity, 13 gallons. Shipping weight, 17 pounds **$4.25**

Charcoal Tin Boiler with Copper Bottom

$2.98

Wood Grip Handles



High grade charcoal Tin with full weight copper bottom. Extra strong heavy wire rim and corrugations on sides. Double seamed and soldered, leakproof. Wooden grips. Size, No. 9, flat bottom, 11⅝ by 22½ inches. Capacity 13 gallons. Shipping weight, 17 pounds. Not mailable.

186 C 218 .... **$2.98**

Sizes on above merchandise may vary slightly from those given

Laundry Supplies

Cyclone Suction Washer 79¢

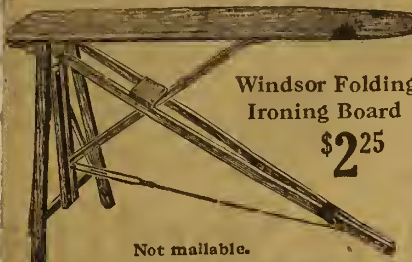
The Cyclone Washer successfully washes light or heavy material. Simply work it up and down on the clothes. The dirt is drawn out by suction. Directions printed on 27-inch wooden handle. Washer itself is of good quality non-rusting tin.

BOTTOM VIEW

Shipping weight, 3 pounds.
486 C 299..........79¢

486 C 300—Vacuum Washer. More simple construction than above, but very effective. Has 22-inch wooden handle. Shipping weight, 1 pound..........34¢

Windsor Folding Ironing Board $2.25



Not mailable.

An Ironing Board that stands firmly and will not wiggle. The ironing surface is of basswood, 13 by 54 inches. The longest skirt or one-piece suit can easily be slipped over the board. Convenient height from the floor. Takes up small space when folded. Shipping weight, 17 pounds.
186 C 223..........$2.25

Sold Only in Sets of Two or More

Genuine Racine Clothes Baskets

Handmade of best rock elm. Reinforced at top. Large handles, securely attached. Strong, smooth, heavy wood bottom. Sold only in sets of two or more, but selection may he made from the various sizes listed below. Not mailable.

Article Number	Size at Top	Height	Ship. Weight	Each
186 C 269	26¼x18¼ in.	11½ in.	4 lbs.	69¢
186 C 270	28½x18⅝ in.	12 in.	4 lbs.	79¢
186 C 271	30¾x20¾ in.	12½ in.	4 lbs.	89¢

Climax Folding Curtain Stretcher

Not mailable

$2.48

Adjustable

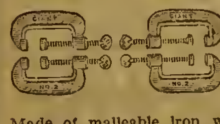
Made of select clear basswood. Width, 1¾ inches. Extends to 5 by 10 feet. Frame and center brace have burnt-in measuring rule. Adjustable to all size curtains.

The rustproof pins, of nickel plated brass adjust to any size scallops. Folds compactly with pins protected. Shipping weight, 9 pounds.
486 C 213..........$2.48

186 C 251 — Similar to above, hut extends to 6 by 12 feet. Adjustable brass nickel plated pins. Shipping weight, 10 pounds..........$2.75

486 C 214—Folding curtain stretcher. Size, 5 by 10 feet. Made of 1½-inch basswood with stationary pins two inches apart. Shipping weight, 9 pounds....$1.75

Set of 4 General Utility or Quilting Frame Clamps



Very high quality. Guaranteed not to break. Made of malleable iron with steel screw. Open as wide as two inches. Should be in every family tool chest. Shipping weight, per set, 2 pounds.
86 C 316—Set of 4..........75¢

$9.50

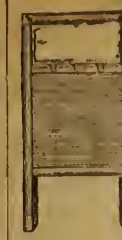
Tubs Not Included

Guaranteed 5 Years

Thornward Wringer Complete with Bench

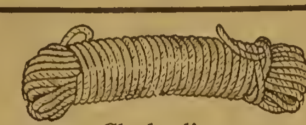
Select hard maple and beechwood Bench with 5-year guaranteed Thornward Wringer. Reversible waterboard. Steel ball bearings; fully enclosed cog wheels. Size of rolls, 11 by 1¾ inches. Holds two tuhs. Folds into small space. Tuhs not included. Shipping weight, 50 pounds. Not mailable.
186 C 204..........$9.50

49¢ Brass Wash Board



An exceptionally well made washboard. Solid brass rubbing surface measures 10 by 10½ inches. Will not rust or discolor. Has sanitary front soap drain. Full dimensions, 23¼ by 11½ inches. Shipping weight, 3 pounds.
486 C 243..........49¢

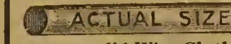
Clotheslines



86 C 435 — Solid Braided Cotton Clothesline. Diameter, about ¼ inch: 50 and 100-foot lengths. Shipping weight of 50 feet, 18 ounces.
Per 50-foot hank..........29¢

86 C 437 — ¼-Inch Highest Grade Manila Clothesline. Shipping weight of 100 feet, 2½ pounds. Per 100 feet..........59¢

86 C 410—Samson Spot Sash Cord Solid Braided Cotton Clothesline. There is no better line obtainable. Shipping weight of 100 feet, 2½ pounds.
Per 100-feet..........79¢



43¢ 100 Feet

Solid Wire Clothesline

Annealed galvanized wire. Smooth surface. In coils of 100 feet. Shipping weight, 6 pounds.
86 C 430—Per 100-foot coil..........43¢

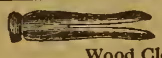
43¢ 100 Feet

Twisted Wire Clothesline

Made of No. 18 gauge wire, twisted together to form a strong, flexible cable. Thoroughly galvanized. Illustration shows actual size. Shipping weight, 4 pounds.
86 C 431—Per 100-foot coil..........43¢

Spring Pins 6 Dozen 27¢

Standard Wood Clothespins. Patent galvanized spring. Shipping weight, per gross, 4 pounds.
86 C 308—Per box, 6 dozen..........27¢
Per gross..........52¢



10 Dozen 32¢ Wood Clothespins

Strong and smoothly finished.
86 C 306—Package containing 10 dozen. Shipping weight, 2½ pounds..........32¢
486 C 305—Box containing 60 dozen. Shipping weight, 15 pounds..........$1.48

Ironing Mangle

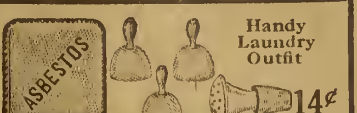
All the large articles like sheets, towels and underwear, and much of the small unstarched wash without buttons, are pressed quickly and easily with this machine. No heating required.

Strong iron frame with hardwood rolls. Size, 24 by 3½ inches. Heavy pressure springs adjust to heavy or light goods. Height, 12 inches. Width, 28 inches.
Shipping weight, 55 pounds.
186 C 275..........$9.98

Genuine Bluebird Clothesline Reel 32¢

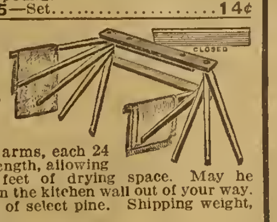
Occupies space only 3 by 3 inches. Contains about 30 feet of strong braided line. The ratchet tightens the line at any length and prevents it from slipping back. Complete with screws and hooks. Shipping weight, 1¼ pounds.
86 C 258..........32¢

Handy Laundry Outfit 14¢



Consists of an asbestos iron holder, 3 cakes of ironing wax, and aluminum sprinkler to fit on top of a bottle. Shipping weight, per set, ¾ pound.
86 C 265—Set..........14¢

89¢ Clothes Dryer



Has ten arms, each 24 inches in length, allowing you 18½ feet of drying space. May he nailed up on the kitchen wall out of your way. Well made of select pine. Shipping weight, 5 pounds.
86 C 225..........89¢

Clothes Dryer $1.39

Not mailable

Folded

Has 26½ running feet of drying space, yet occupies only 31¾ by 15 inches floor space. Is 54 inches high. Folds compactly to 32 by 23 by 6 inches. Made of white basswood. Shipping weight, 8 pounds.
186 C 264..........$1.39

29¢ Clothes Dryer

Has eight wooden arms, each about 24 inches long. Arms drop out of the way when not in use. Shipping weight, 1½ pounds.
86 C 266..........29¢

Folding Double Wash Tub Bench

Any Kind of Wringer May Be Attached to This Bench

Not mailable

$1.98

Good, firm Bench with water board on both sides. Folds up into small space. Made of hardwood. Length, 51 inches. Width, 17 inches. Shipping weight, 24 pounds.
186 C 282..........$1.98

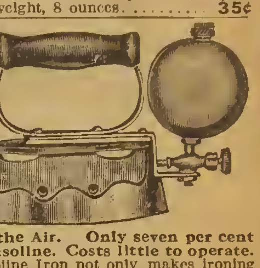
Padded Cover for Your Ironing Board 65¢

Fits Any Standard Ironing Table or Board

A thick padding which may be used on any standard ironing table or board.

Costs no more than ordinary sheets and eliminates the bother of fastening. Easily put on any board. Laces up like a shoe. Shipping weight, each, 1¼ pounds.
86 C 267—Each..........65¢
86 C 268—Washable Cover to slip over and protect pad. Shipping weight, 8 ounces..........35¢

The Handy Superior Gasoline Iron $4.75

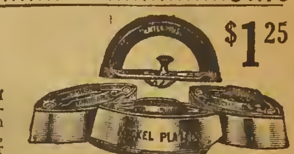


Ninety-three per cent of the heat furnished by the Air. Only seven per cent furnished by the Gasoline. Costs little to operate.

The Superior Gasoline Iron not only makes ironing pleasant, but saves countless footsteps and more than pays for itself in low cost of operation. It heats quickly and operates five hours on one filling of gasoline. Perfectly safe—easily adjusted. Iron the quick, pleasant Superior way—save yourself from long hours beside a hot stove. Directions included. Shipping weight, 10 pounds.
486 C 245..........$4.75

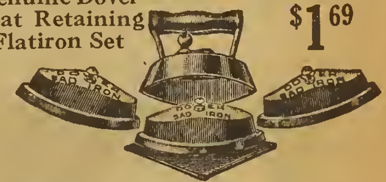
Mrs. Potts' Sad Iron Set $1.25

Fully Nickel-Plated



Set consists of one 4-pound polishing iron with rounded point, two regular double pointed irons, weighing 5 and 5½ pounds, one detachable cold handle and one iron stand. These irons always give the hest satisfaction. Shipping weight, of set, 17 pounds.
486 C 234—Set..........$1.25
86 C 237—Extra quality handles for Mrs. Potts' irons. Shipping weight, each, 12 ounces. Each..........19¢

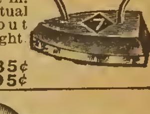
Genuine Dover Heat Retaining Flatiron Set $1.69



Detachable Pressed Steel Hood Keeps Iron from Cooling

Enameled wood handle. Improved lock on wedge principle holds iron rigid and secure. Ironing surface is very smooth, slightly convex and has round edges to prevent shirring. Smoothly polished finish. Set consists of three oval irons weighing, with hood attached, 5½ pounds each, and one covered stand, 6 by 6 inches. Shipping weight, per set, 18 pounds.
486 C 231—Set..........$1.69

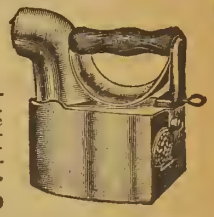
Sad Irons



Smooth cast iron with extra polished face and edges. Iron handle cast in. Sizes given are a little over actual weight. Shipping weights, about ½ pound more than actual weight.

86 C 239
6 pounds....65¢ 8 pounds....85¢
7 pounds....75¢ 9 pounds....95¢

Charcoal Iron $1.79



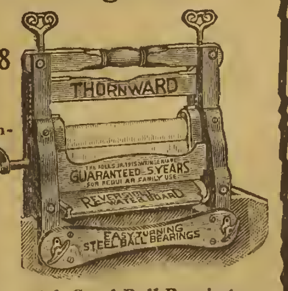
The heat is easily regulated by the double flues. Burns charcoal or live wood coals. Finely polished. Metal shield prevents the handle from getting hot. Shipping weight, 7 pounds.
86 C 242..........$1.79

High Quality Clothes Wringers

$5.35 Guaranteed for 3 Years

Our Dandee Wringer

The frame is made of maple. Fitted with steel ball bearings. Cogwheels completely enclosed. No danger of injury to clothes or fingers. Guaranteed for 3 years, but with ordinary care it will give much longer service. Size of rolls, 10 by 1¾ inches. Fits any tub. Shipping weight, 25 pounds.
486 C 207..........$5.35



$6.48 Guaranteed for 5 Years

Fitted with Steel Ball Bearings

For stationary or round tuhs. Reversible water board. Frame is of select maple. Cogwheels are fully enclosed. Improved steel spiral pressure springs insure even pressure on clothes. Clamps open two inches and hold wringer securely to tuh. Select elastic ruhher rolls. Size, 11 by 1¾ inches. Shipping weight, 33 pounds.
486 C 203..........$6.48

Thornward Metal Frame Wringer

Guaranteed for 5 Years

Frame is of high grade malleable iron, with easy running steel ball bearings and completely enclosed cogwheels. No danger of injury to fingers or clothes. Spiral pressure springs.

The Hold-fast tub clamps fasten the wringer securely to any galvanized iron, wood or fiber tuh; clamps open 1⅝ inches. Rolls are of the best elastic rubber. It is guaranteed for 5 years, but with ordinary care will last much longer. Size, 10 by 1¾ inches. Shipping weight, 26 pounds.
486 C 202..........$5.98

$5.98

$5.98 Guaranteed for 5 Years

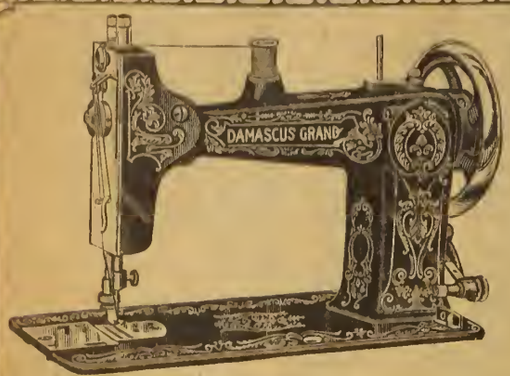
Fitted with Steel Ball Bearings Fits Any Tub—Enclosed Cogs

Has old fashioned elastic rubber rolls which for ordinary family use, will last much longer than the guarantee period of 5 years. Easily accessible for oiling. Hold-fast tuh clamps. Cogwheels fully enclosed to prevent injury to fingers and clothes.
486 C 200—Size of rolls, 10 by 1¾ inches. Shipping weight, 26 pounds..........$5.98
486 C 201—Size of rolls, 11 by 1¾ inches. Shipping weight, 27 pounds..........$6.48

Features of Sewing Machines

Shown on Pages 534 to 538

Damascus Grand Rotary



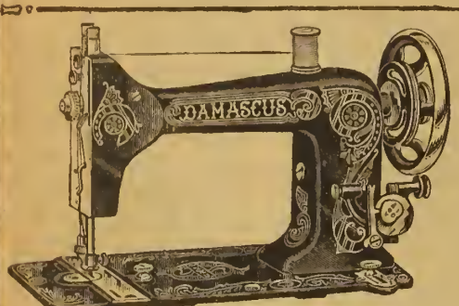
Sewing Machines equipped with the Damascus Grand Rotary Sewing Head are shown at bottom of this page and on Page 535.

SIX exclusive features make the Damascus Grand Rotary Ward's best and most popular model; superior in every respect to the ordinary sewing head. **Rotary principle.** The bobbin case is round instead of cylinder shape and revolves in a continuous circle instead of moving back and forth as in the vibrating type. This gives speed and silence. The Damascus Grand Rotary **sews one-third faster** than any ordinary machine, and does it without the noise of the vibrating shuttle. The bobbin is easy to reach, easy to thread and easy to keep in order. **It makes a double lock stitch.**

Each time the needle goes through the cloth, a hook on the revolving shaft catches the upper thread and passes it around the bobbin. The "Take-up" pulls it tight and locks it. It cannot loosen and will not unravel. **Automatic Tension** adjusts itself to any size thread without your aid; no matter what kind of sewing you do, the Damascus Grand Rotary will turn out even, perfect stitching. **Stitch Size** is regulated by convenient lever. You push it along the rules and it stays. It cannot work loose in the middle of a seam.

Automatic Bobbin Winder stops when the bobbin is full: The Damascus Grand Rotary has two spool pins; you wind the bobbin without unthreading the machine. **Easy Threading:** The Damascus is so easy to thread that you can almost do it with your eyes shut. **Easy action:** Best of materials, expertly fitted together, assure you a smooth, easy running machine. Every part has been thoroughly adjusted and tested with cotton and silk thread before it leaves the factory. The stand is fitted with high grade ball bearings, and is the proper height for sewing comfortably. The large fly wheel, protected with a dress guard so belt will not come off when machine is closed, runs smoothly and easily, with no noise and almost no effort on the part of the seamstress. Sewing head has high arm, giving ample room to insert and handle heaviest materials. Oil holes within easy reach—no lifting or turning to find them. In every respect a high class, well built machine, equipped with every device for convenience and ease of operation. Backed by Montgomery Ward's & Co.'s 20-year guarantee against defects of material or workmanship.

Damascus Vibrating Shuttle



IT is impossible to find a Vibrating Shuttle Sewing Head better constructed, easier running or more convenient than the Damascus. It is our best vibrating shuttle model and an ideal sewing head for the family machine. It is sturdily built to withstand long use, expertly constructed to give smooth, swift, easy action, and equipped with Damascus exclusive features which make it convenient and pleasant to use. **Automatic Tension** insures perfect stitching without changing for each grade of thread. Stitch length regulated by simple thumbscrew near base of arm. Indicator shows size of stitch being made. **Improved Presser Foot** holds thick or thin material smoothly. Positive feed carries goods evenly under the needle and assures perfect stitching. Needle is self-setting.

What Is the Vibrating Shuttle?

Unlike the Rotary, the vibrating shuttle which holds the bobbin, is cylindrical in shape. Instead of revolving in a circle, it moves back and forth. The needle, carrying the upper thread, dips with each stitch, forming a loop of thread through which the shuttle passes, forming the double lock stitch. Damascus "take-up" draws it tight, forming a perfect stitch.

The Sewing Arm is made of high quality gray iron, finished in baked-on black luster enamel which will resist wear and will not check or peel off. All working parts are made of best grade tool steel, hardened in oil. All surface parts are heavily nickel plated to prevent rusting. Every part is carefully finished and expertly fitted together. The entire machine is correctly adjusted and tested with cotton and silk thread before it leaves the factory. Like the Rotary, the sewing stand is designed to run smoothly; equipped with improved ball bearings making it very easy to operate. Treadle is properly adjusted to work without tiring the operator, and is swung on adjustable steel centers. Stand is firm and will not wobble or vibrate when machine is in motion. Guaranteed for 20 years against defects of material or workmanship.

Sewing Machines equipped with Damascus Vibrator Sewing Head are shown on Page 536

The Shuttle (Self-Threading)

Windsor B Vibrating Shuttle

IN the Windsor B Vibrating Shuttle Sewing Head you get an excellent, easy running machine at a low price. The Windsor B is as carefully made, adjusted and tested as higher priced machines. It is made of high quality steel with all bearing surfaces hardened to resist wear and all working parts nickel plated to prevent rusting. The Windsor B is in every respect a dependable machine, equipped with all standard features to make it easy and satisfactory to run. Windsor B features are: Easily regulated **Disc Tension; Handy Thumbscrew Stitch Regulator; Automatic Bobbin Winder,** insuring evenly wound bobbins. **Tension automatically** released when presser foot is lifted; **Self-Setting Needle,** easily inserted; **Self-Threading Shuttle.** High arm gives ample room to insert and handle bulky materials.

Sewing Machines equipped with Windsor B Sewing Head are shown on Page 537

Easy Action Sewing Stand

The sewing stand is just the right height for sewing comfort. It is fitted with improved ball bearings, making it easy to run. Large flywheel is equipped with belt retainer—it will not become unbelted when machine is closed. Made of high grade cast iron, well braced and finished in smooth black enamel. Wears splendidly and is easy to keep clean. Ward's reliable guarantee protects you for 20 years against defects of material or workmanship.

Brunswick Vibrating Shuttle

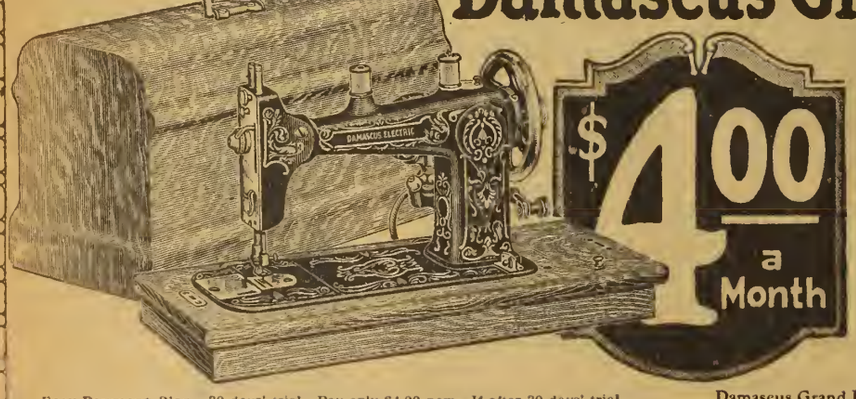
ALTHOUGH the Brunswick C is lighter than our other models, it is a sturdy machine and will give dependable satisfactory service for many years. Like our most expensive sewing heads, it is carefully adjusted and tested before it leaves the factory, and is backed by our 20-year guarantee against defects of material or workmanship. The Brunswick is an excellent value in a low priced but well built machine. Brunswick features are: **Tension control** conveniently located at top of sewing arm; **handy thumbscrew Stitch Regulator** in base of arm; **Automatic Bobbin Winder; Self-Threading Shuttle Carrier; Self-Setting Needle** and **Tension,** easily released. With ordinary care a Brunswick will sew for many years as perfectly as it does the day you receive it.

Comfort in Sewing

The Brunswick stand is made of cast iron, braced and finished, and fitted with ball bearings to insure smooth action. Large flywheel has labor saving belt retainer. Stand is the proper height for comfort and the treadle is correctly adjusted to minimize the effort required to operate it. Brunswick will do any kind of sewing that can be done on any standard machine. It does not have all of the improvements found on our more expensive models, but in other respects it is a desirable machine at a very low cost.

Sewing Machines equipped with Brunswick Sewing Head are shown on Page 538

Damascus Grand Rotary Electric



EVEN the easiest running foot power machine tires you. It costs only a few dollars more to buy an electric machine, which makes sewing easy, comfortable and pleasant. The Damascus Grand Rotary, our finest sewing head, equipped with a small high grade, sturdy electric motor, sews much faster and just as economically as any foot power machine. Connects with any electric light socket; a slight pressure on the foot control regulates the current; increased pressure speeds up the machine. All you do is guide the sewing. The machine stops instantly when the foot pressure is released. Runs quietly and smoothly. This machine is light (weight only 25 pounds), portable (14 inches long, 10 inches wide and 12½ inches high) and convenient—you can carry it easily from room to room, set it on any firm table, and when you are through sewing put it in a closet out of the way. Has eight-foot attaching cord. Nicely finished Golden Oak stand and box cover.

High grade motor is attached to sewing arm. Folds under arm when not in use. Nothing to get out of order.

Easy Payment Plan—30 days' trial. Pay only $4.00 now. If after 30 days' trial the machine does not please you, you need only ask us for instructions how to return it. Your deposit and all freight charges will be refunded. If you decide to keep it, pay $4.00 each month until full amount is paid.
USE SPECIAL CONTRACT ORDER BLANK, PAGE 531, properly filled out.

Cash Payment Plan—30 days' trial. If you pay the entire purchase price in cash, we give you the benefit of the saving to us in bookkeeping expense and allow you a discount on the easy payment price. If after 30 days' trial the machine does not please you, return it and the full purchase price and all freight charges will be refunded.

Shipping weight, 60 pounds

Damascus Grand Rotary Electric Machine with 110-Volt Alternating Current Motor

286 C 96—Easy Payment Price **$53.95**
USE SPECIAL CONTRACT ORDER BLANK ON PAGE 531.
If you pay the full purchase price in cash, we give you a discount of **5.45**
Cash Price **48.50**

Damascus Grand Rotary Sewing Machine with 32-Volt Direct Current Motor

286 C 51—Easy Payment Price **54.95**
If you pay the full purchase price in cash, we allow a discount of **5.45**
Cash Price **49.50**

Shipped from Factory in Northern Illinois

The season's newest Silks are shown on Pages 170 to 172

20 Year Guarantee

very one of our Sewing Machines is correctly usted, carefully inspected and thoroughly tested h both cotton and silk thread before it is allowed to e the factory. With each machine we include a ten guarantee, properly signed and bearing the al number of the machine. If any defects of workship or material develop at any time within 20 years r the machine reaches you, we will put the machine perfect running order without cost to you, and the freight charges both ways.

Greist Attachments

With each machine we send you *FREE* a complete set of nickel plated Greist Attachments, packed in a case which fits into the sewing machine drawer. With the aid of these extra attachments you may give your clothes the tailored appearance of ready made garments. Set includes ruffler, tucker, braider, 5 hemmers, special foot, under braider and shirring slide. With each machine we include 12 needles, 6 bobbins, thread cutter, screwdriver, gauge, oil can (filled) and illustrated instruction book.

Liberal Trial Offer

If you order on the *Easy Payment Plan*, send only $4.00 with your order. If, after you have had the machine *30 days*, it does not please you, you only need ask us for instructions how to return it and your deposit and freight charges will be refunded. If you order on the *Cash Plan*, send the full purchase price with your order. Keep the machine for *90 days* and, if you are not pleased, you only need ask us for instructions how to return it and the full purchase price and freight charges will be refunded.

Damascus Grand Rotary

WHEN you have decided on a Damascus Grand Rotary Sewing Head, your next step is to select the case which will prove equally practical and satisfying. This four-drawer model, simple and attractive in design, with ample drawer space for everything you need while sewing, is one of the most popular Damascus machines. It is strongly built of richly grained, well seasoned oak; table and drawer frames of quarter-sawed; front drop, side panels and top lid of built-up stock; perfectly matched and finished in highly polished golden oak. The automatic lift brings the sewing head easily and quickly into place when the machine is opened. With the same operation the front drop is drawn well out of the way, giving plenty of room for the knees. An 18-inch measure is imprinted on the front of the big, roomy sewing table. The easy action of the Damascus Rotary sewing head, ball bearing flywheel, correctly placed treadle and convenient height of the sewing table, make this machine easy and pleasant to operate, and the Damascus Grand Rotary Sewing Head insures perfect sewing service. With each machine we include a set of tools and a set of Greist attachments.

A Free Book of Instructions Is Included With Each Machine.

This Illustration Shows the Machine Open. Note Front Drop Is Raised.

Easy Payment Plan — 30-Day Trial
Use Special Contract Order Blank on Page 531

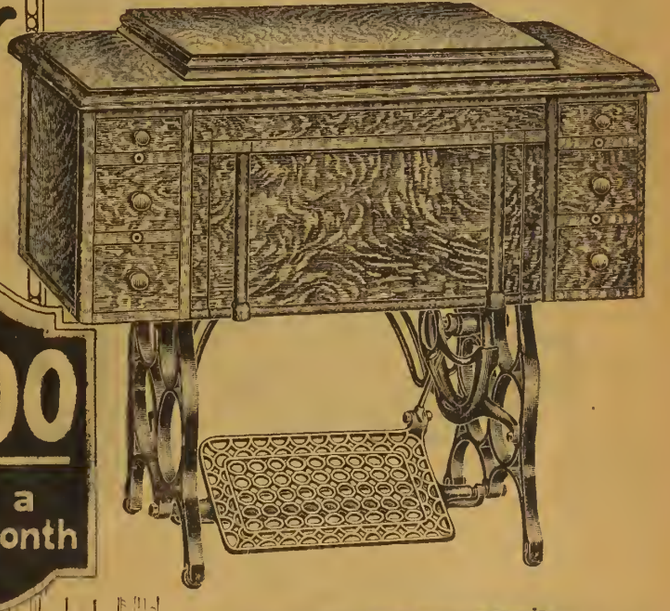
286 C 60—Easy Payment Price $43.95
Pay only $4.00 now. If after 30 days' trial, you are not pleased, you only need ask us for instructions how to return it and your deposit and freight charges will be refunded. If you decide to keep it, pay $4.00 each month until purchase price has been paid.

Cash Payment Plan — 90-Day Trial
If you pay the entire purchase price in cash, we allow you a discount of $4.00 from the easy payment price.
286 C 60—Cash Price..... $39.95
If after 90 days' trial, you are not pleased with the machine, you only need ask us for instructions how to return it and the full purchase price and freight charges, will be refunded. **The 90-day trial offer applies to cash payment plan only.**
Shipping weight, 125 pounds.
Shipped from Factory in Northern Illinois

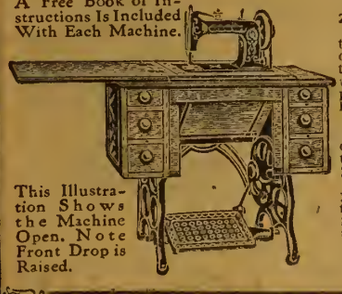
$4.00 a Month

Sewing Head is Fully Described on Page 534

Damascus Grand Rotary



THIS roomy six-drawer model will appeal to the woman who wants the best of sewing machines and at the same time wants a case which will add to the appearance of the home. This is an unusually handsome model. Is substantially built of well seasoned oak; table and drawer frames of quarter sawed; top lid, side panels and front drop of built-up stock. Finished in golden oak, highly polished. For the home where there is a great deal of sewing to be done, there could be no better choice than this Damascus Grand Rotary Model. Its swift, smooth action; the broad, well placed treadle; the sewing table at just the right height for comfort; all combine to make it possible for a seamstress to sew for hours without becoming tired, and to turn out perfect work. The convenient automatic lift brings the sewing head up with a single, easy motion and draws the front drop well out of the way of the knees. When the work is done, the sewing head is quickly lowered down into the case where it is protected from dirt and dust. The stand is firm and well braced. Attractively finished in black enamel paint and fitted with casters. Does not wobble or vibrate. A complete set of Greist attachments, a set of tools, and instruction book are included free with each machine.



A Free Book of Instructions Is Included With Each Machine.

This Illustration Shows the Machine Open. Note Front Drop is Raised.

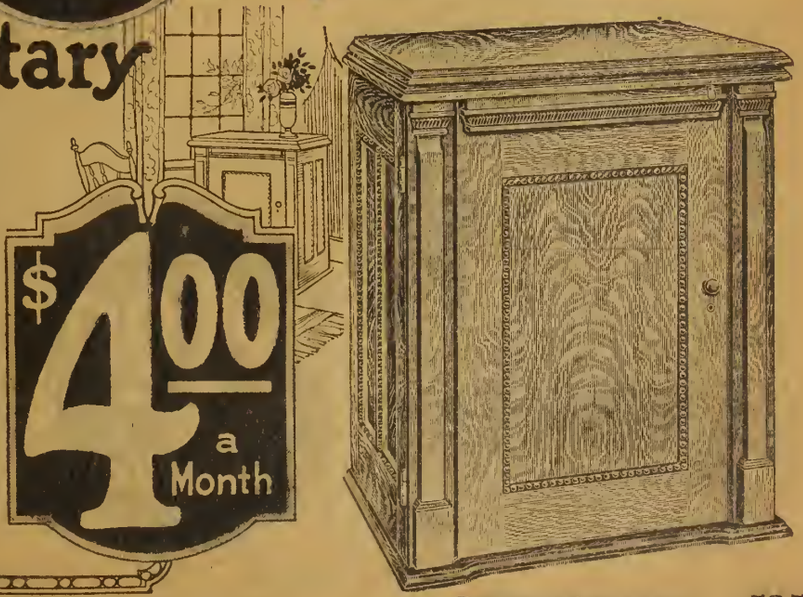
Easy Payment Plan—30-Day Trial
Use Special Contract Order Blank on Page 531

286 C 62—Easy Payment Price. $46.95
Pay only $4.00 now. If after 30 days' trial, the machine does not please you, you only need ask us for instructions how to return it. Your deposit and the freight charges will be refunded. If you decide to keep it, pay $4.00 each month until purchase price has been paid.

Cash Payment Plan—90-Day Trial
If you pay the entire purchase price in cash we allow you a discount of $4.00 from the easy payment price.
286 C 62—Cash Price..... $42.95
If after 90 days' trial, you are not pleased, you only need ask us for instructions how to return it, and the full purchase price and freight charges will be refunded. **The 90-day trial applies to cash payment plan only.**
Shipping weight, 125 pounds.
Shipped from Factory in Northern Illinois

$4.00 a Month

Damascus Grand Rotary



IN the Damascus Cabinet Style Machine you get three distinct advantages: An excellent sewing machine, a handsome piece of furniture and complete protection not only of the sewing head but of the stand as well. When you close the cabinet all parts of the machine are completely enclosed and protected from dust, dirt and dampness. This protection is well worth the slight difference in price. The Damascus cabinet is constructed throughout from the choicest cross-banded, quarter sawed oak, perfectly matched and finished. The single full width door is ornamented with a sunken panel and neat, carved molding. Heavy, squared pillars form the corners. The base stands flat on the floor—leaving no crevice where dirt can gather. A handy pocket on inside of door provides a place for accessories and patterns. Foot form treadle makes it easy to run. Has automatic lift and ventilating holes in back. With each machine we include a set of Greist attachments.

A Free Book of Instructions Is Included With Each Machine.

Easy Payment Plan—30-Day Trial
Use Special Contract Order Blank on Page 531

286 C 63—Easy Payment Price. $53.95
Pay only $4.00 now. If after 30 days' trial, you are not pleased with the machine, you only need ask us for instructions how to return it and deposit and freight charges will be refunded. If you decide to keep it, pay $4.00 each month until purchase price has been paid.

Cash Payment Plan—90-Day Trial
If you pay the full purchase price in cash, we allow you a discount of $5.25 from the easy payment price.
286 C 63—Cash Price..... $48.70
If after 90 days' trial, you are not pleased with this machine, you only need ask us for instructions how to return it and the full purchase price and freight charges will be refunded. **The 90-day trial applies to cash payment plan only.**
Shipping weight, 143 pounds.
Shipped from Factory in Northern Illinois

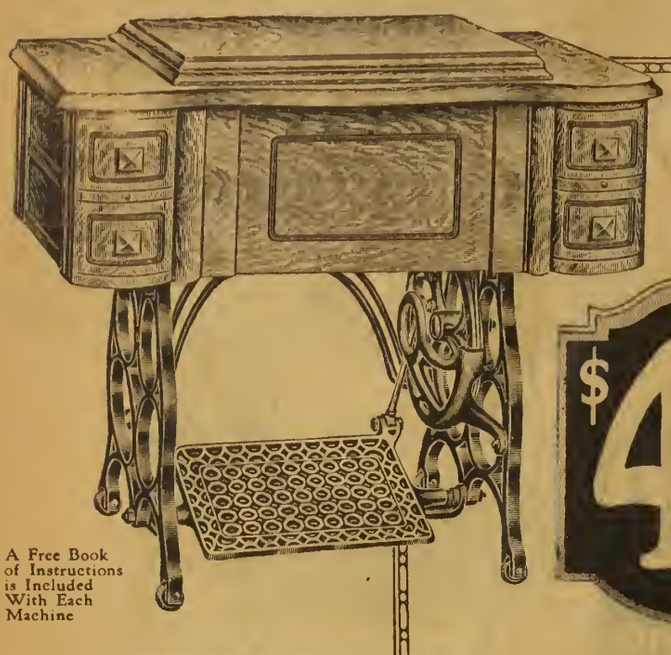
$4.00 a Month

Damascus Sewing Machines (Vibrating Shuttle Type)

The Sewing Head Is Fully Described on Page 534

Our Trial Offer and 20 Year Guarantee Are Explained on Page 535

Set of Greist Attachments Furnished with Each Machine



A Free Book of Instructions is Included With Each Machine

Damascus Vibrating Shuttle

THIS sturdily built case, roomy and the proper height for sewing comfort, will add to the satisfaction you may expect from your Damascus Vibrating Shuttle Machine. The four-drawer model is made of richly grained quarter sawed oak, finished in golden oak. It has the time and strength-saving automatic lift, front drop which draws up to give knee room, handy 18-inch rule on front of table and roomy, easy-sliding drawers. Simple lines make it easy to keep clean, and the Damascus Vibrating Shuttle sewing head, with its easy action, ball bearing stand, correctly adjusted treadle and perfectly finished working parts, makes it easy and pleasant to run. With this machine we send free a complete set of high grade nickel plated Greist attachments, packed in a Japanned metal case. With these attachments you can make dainty rufflings, braidings, etc., and save the price of many trimmings you would have to buy.

$4.00 a Month

Easy Payment Plan—30-Day Trial

286 C 65—Easy Payment Price..... **$38.75**

Use Special Contract Order Blank on Page 531

Pay only $4.00 now. If, after 30 days' trial, the machine does not please you, you only need ask us for instructions how to return it. Deposit and freight charges will be refunded. If you decide to keep the machine, pay $4.00 each month until purchase price has been paid.

Cash Payment Plan—90-Day Trial

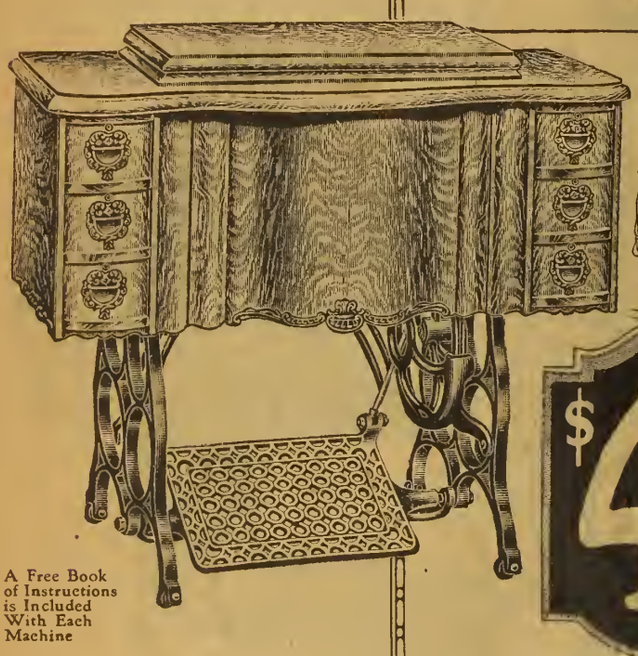
If you pay the full purchase price in cash we allow you a discount of $5.80 from the easy payment price.

286 C 65—Cash Price..... **$32.95**

If, after 90 days' trial, you are not pleased with this machine, you only need ask us for instructions how to return it, and full purchase price and freight charges will be refunded.

The 90-day trial offer applies to cash payment plan only.

Shipping weight, 120 pounds
Shipped from Factory in Northern Illinois



A Free Book of Instructions is Included With Each Machine

Damascus Vibrating Shuttle

A DAMASCUS Vibrating Shuttle sewing head in this handsome six drawer model case, makes an ideal combination either for the home or for the professional seamstress. The Damascus is an excellent machine, dependable for its perfect stitching, easy action and long service. This case, both handsome and substantial, gives you ample drawer space, a good firm sewing table at the proper height for comfort, and plenty of room for the knees. Beautiful in design and constructed throughout of substantial oak; table and drawer frames of quarter sawed; ornamented side panels, front drop and top lid made of built-up stock finished in highly polished golden oak. Has labor saving automatic lifting device, and accurate 18-inch measure imprinted on front of sewing table. Accept our generous trial offer and see this machine in your home before making a decision. You will like its appearance as well as its sewing. Complete set of Greist attachments in metal box included with each machine.

$4.00 a Month

Easy Payment Plan—30-Day Trial

286 C 129—Easy Payment Price..... **$39.85**

Use Special Contract Order Blank on Page 531

Send only $4.00 now. If, after 30 days' trial, you are not pleased with the machine, you only need ask us for instructions how to return it. Your deposit and freight charges will be refunded. If you decide to keep it, pay $4.00 each month until purchase price has been paid.

Cash Payment Plan—90-Day Trial

If you pay the full purchase price in cash, we allow you a discount of $5.00 from the easy payment price.

286 C 129—Cash Price..... **$34.85**

If, after 90 days' trial, this machine does not please you, you only need ask us for instructions how to return it, and full purchase price and freight charges will be refunded. **The 90-day trial offer applies to cash payment plan only.**

Shipping weight, 125 pounds
Shipped from Factory in Northern Illinois

Damascus Vibrating Shuttle

THE Cabinet is the most practical case for the good machine. It protects the working parts from dirt and dust, and at the same time is an attractive piece of furniture suitable for any room in the house. This cabinet for the Damascus Vibrating Shuttle is unusually attractive in design. It is constructed throughout of oak; the door, side panels and top lid are of built-up stock and the frame of quarter sawed. Has rich, dark golden oak finish. Doors handsomely embossed. Square pillars form the corners. Base stands flat on floor. Handy wooden pockets on inside of the doors provide the space for accessories. The cabinet is firmly constructed and the stand securely anchored to its frame. It will not work loose. You will find it as firm and steady as a cast iron stand. Has the time and strength saving automatic lift. Foot form treadle, correctly adjusted, adds to the ease and comfort of sewing. Adequately ventilated through holes in back of case. The Damascus Vibrating Shuttle sewing head assures you many years of faithful service. With ordinary care it will retain its smooth, easy action far beyond the 20 years covered by our guarantee. Complete set of high grade nickel plated Greist attachments is included free with every machine.

$4.00 a Month

Easy Payment Plan—30-Day Trial

286 C 71—Easy Payment Price..... **$44.95**

Use Special Contract Order Blank on Page 531

Send only $4.00 now. If, after 30 days' trial, you are not pleased with the machine you only need ask us for instructions how to return it. Your deposit and freight charges will be refunded. If you decide to keep the machine, pay $4.00 each month until purchase price has been paid.

Cash Payment Plan—90-Day Trial

If you pay the entire purchase price in cash, we allow you a discount of $5.00 from the easy payment plan price.

286 C 71—Cash Price..... **$39.95**

If, after 90 days' trial, you are not satisfied with the machine, you only need ask us for instructions how to return it, and full purchase price and freight charges will be refunded. **The 90-day trial offer applies to cash payment plan only.**

Shipping weight, 150 pounds
Shipped from Factory in Northern Illinois

Windsor B Sewing Machines

Cash Payment Plan with 90-Day Trial Offer

THE Sewing Machines shown on Pages 537 and 538 are sold only on our cash payment plan. Any of these machines will sent to you for 90 days' trial. Send full purse price of machine with your order, and if you are not satisfied after three months' trial, you need only write us for shipping instructions. Full purchase price and all freight charges paid by you will then be refunded.

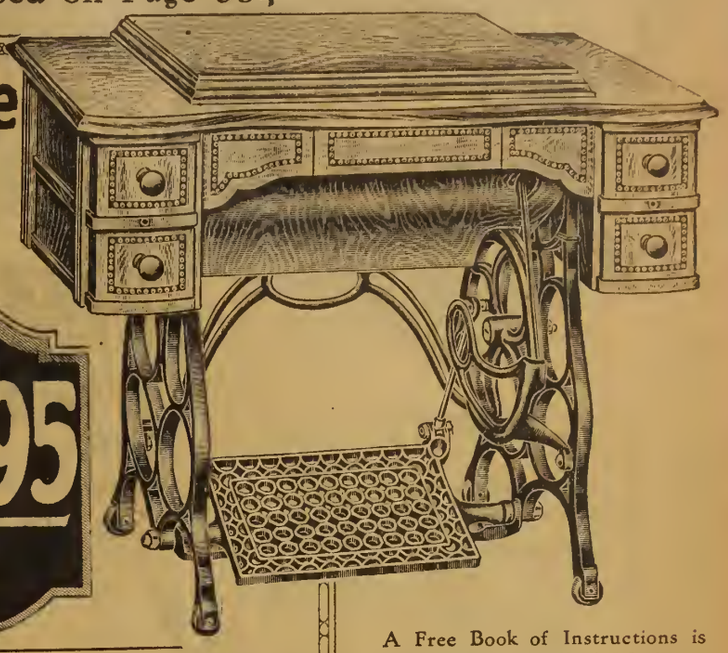
20 Years' Guarantee

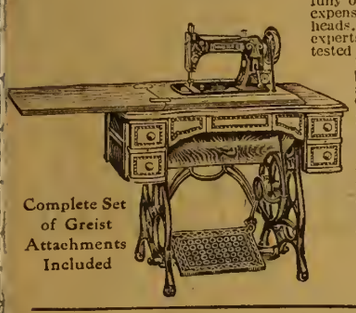
WE guarantee the Windsor and Brunswick Sewing Machines for 20 years, the same as our most expensive models. Our Guarantee is fully explained on Page 535.

Sewing Head Is Described on Page 534

Windsor B Vibrating Shuttle

THE best way to judge the quality of a Sewing Machine is to sew with it. Our 90-day trial offer allows you to have this machine in your home for three months. During that time you may use it for any sewing you would do with the most expensive machine and see how quickly, easily and perfectly it stitches. You can assure yourself that both case and sewing head are well made and well worth the low price asked. This five-drawer model case is substantially built of oak. The side panels are mortised and secured to the legs with iron clamps. The top lid is of genuine oak veneer, excellently finished. It will not warp. Finished in handsome dark golden oak. Has accurate 18-inch measure imprinted on sewing table, and convenient slots in center drawer for holding extra bobbins.





Complete Set of Greist Attachments Included

The Windsor B Vibrating Shuttle sewing head used in this model is described fully on Page 534. Although it is a less expensive model than our Damascus heads, it is made by sewing machine experts, and is carefully inspected and tested with both silk and cotton thread before it leaves the factory. It is backed by our 20 year guarantee against defects. Complete set of Greist attachments included free.

286C73—Cash Price. $27.95

This model is not sold on the easy payment plan. Send full amount with your order. If after 90 days' trial, the machine does not please you, you only need write us for instructions how to return it. Full purchase price and freight charges will be refunded.

Shipping weight, 110 pounds

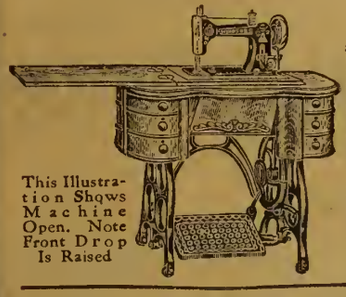
Shipped from Factory in Northern Illinois

$27.95

A Free Book of Instructions is Furnished With Each Machine

Windsor B Vibrating Shuttle

THE Martha Washington Model is built of beautifully grained oak, finished in rich, dark golden. The table, table frame, drawer frames, head frame and top are made of solid stock veneered with genuine quarter sawed oak. The drawers are gracefully curved, harmonizing with the shaped front drop which is ornamented with a simple embossed design. This model has the automatic lift which brings the sewing head into place with a single easy motion. An accurate 18-inch measure is imprinted on the front of the roomy sewing table. The Windsor ball bearing stand insures easy action, while the Windsor sewing head guarantees long years of perfect sewing service—and all at an exceedingly low price. It has all the improvements to be found on any machine at this price, and many that ordinarily are found only on higher priced models. Our liberal trial offer allows you to have this machine in your home for three months, where you can prove to your own satisfaction that it is a remarkable value. Although we sell the Windsor for much less than our Damascus models. It is backed by the same guarantee against defects.



This Illustration Shows Machine Open. Note Front Drop Is Raised

Greist Attachments

We send with each Windsor B a set of Greist attachments equipped to sew everything that home sewing or expert dressmaking may demand. They are made of the very best grade of steel, nickel plated, packed in a neat case. In addition to the Greist Attachments the following supplies are included: 12 needles, 6 bobbins, thread cutter, screwdriver, gauge, oil can (filled) and illustrated instructinn hook.

286 C 77—Cash Price.....$33.75

This model is not sold on the easy payment plan. Send the full purchase price with your order. If after 90 days' trial, you are not pleased with the machine, you only need write us for instructions how to return it. Full purchase price and all freight charges will be refunded.

Shipping weight, 120 pounds

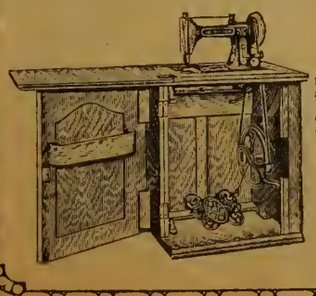
Shipped from Factory in Northern Illinois

$33.75

A Free Book of Instructions is Furnished With Each Machine

Windsor B Vibrating Shuttle

YOUR machine is always useful if you select a cabinet. When not in use for sewing, it is convenient and attractive and with room inside to tuck away sewing materials. This Windsor Model is made of richly grained oak, door and side panels of quarter sawed; frame and table of solid stock; well finished in dark golden oak. The shaped door panel is decorated with embossed design. Base is flush with floor—leaving no crevice for dust to gather. Roomy wooden pocket on inside of the door provides space for accessories. Foot form treadle gives support for the feet while working and makes bottom of the case easy to reach for cleaning. Automatic lift quickly brings sewing head into place when machine is opened. When sewing is finished the head is just as easily dropped into the case where it is protected from dust and dirt. All castings are securely anchored to the case and will not work loose. This model is as firm as any cast iron stand machine and works with as little vibration. The Windsor B sewing head, described fully on Page 535, is an excellent low priced machine. It has conveniences not found on most machines at this price. Carefully tested and adjusted before it leaves the factory, and is backed by our 20 year guarantee against defects just as our highest priced machines.



Each Machine Tested Before Shipped from Factory

In selecting your machine, keep in mind that all our models, no matter what the price, are carefully tested with both cotton and silk thread before they are allowed to leave the factory. With each machine we send a written guarantee against defects of workmanship or materials. If any develop within a period of 20 years, we will put it in order, free of charge, and pay freight charges both ways.

286 C 93—Cash Price.....$36.50

This model is not sold on the easy payment plan. Send the full purchase price with your order. If after you have had the machine 90 days, you are not satisfied with it, you only need write us for instructions how to return it. Full purchase price and all freight charges will be refunded.

Shipping weight, 140 pounds

Shipped from Factory in Northern Illinois

$36.50

Brunswick Sewing Machines

Sewing Head Described on Page 534

Read 90-Day Trial Offer and 20-Year Guarantee on Page 537

Set of Greist Attachments Furnished with Each Machine

A Free Book of Instructions is Included with Each Machine

A Free Book of Instructions is Included with Each Machine

Brunswick Vibrating Shuttle

THE Brunswick Vibrating Shuttle is an exceedingly popular and satisfactory low priced machine. This particular case may be had in either a five or a seven-drawer style. Frame is made of quarter-sawed oak; table and panels of built up stock, and balance of cabinet is solid oak. All nicely finished in dark golden oak. The front of cabinet is in serpentine effect. The Brunswick has many improvements not found on even higher priced machines.

$24.50

Our 90-Day Trial Offer allows you to have this machine in your home for three months. You can try it with any sewing that you would do with a more expensive machine and see for yourself that the Brunswick is well worth the price asked. With each machine we include a complete set of Greist attachments, made of high grade steel, nickel plated and packed in a metal box.

286 C 83—Six-Drawer Model.
Cash Price.....$26.50

286 C 84—Four-Drawer Model.
Cash Price..... 24.50

These models are not sold on the easy payment plan. Send the full purchase price with your order. If after you have had the machine 90 days, it does not please you, write us for instructions. Full purchase price and freight charges will be refunded.

Shipping weight, 120 pounds

Shipped from Factory in Northern Illinois

Brunswick Vibrating Shuttle

THIS Brunswick Model is our lowest priced cabinet, yet it compares favorably with the most expensive, and will add to the comfort and convenience of the seamstress. Substantially built of solid oak with attractively ornamented doors. Top rail and lid of built-up stock. Finished in dark golden oak. Automatic lift, footform treadle, ventilated, correct sewing height—all the details of the more expensive models make it pleasant to use.

$33.95

The Brunswick Sewing Head described on Page 534 is an exceptionally good value in a low priced machine. It does not have all of the special features found in the Damascus and Windsor sewing heads, but it sews the popular lock stitch easily and perfectly. With ordinary care it will give you good service and long outlive our 20 year guarantee.

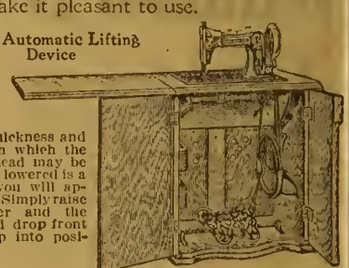
286 C 86—Cash Price.....**$33.95**

This model is not sold on the easy payment plan. Send the full purchase price with your order. If after 90 days' trial, you are not pleased with the machine, you only need write us for instructions how to return it. The full purchase price and all freight charges will be refunded.

Shipping weight, 135 pounds

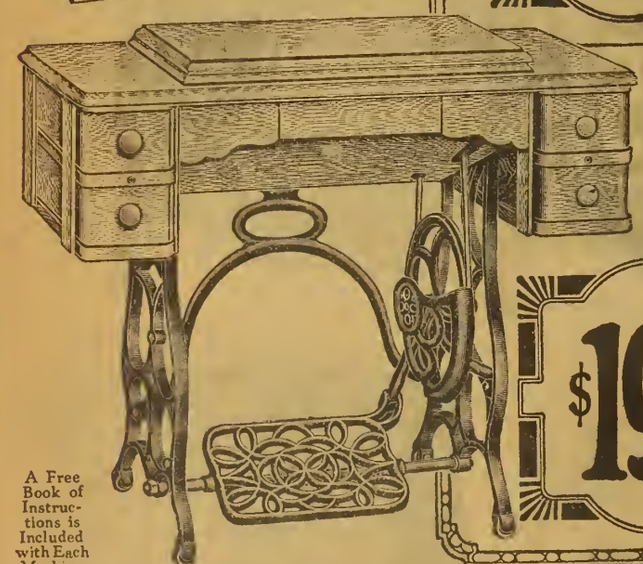
Shipped from Factory in Northern Illinois

The Automatic Lifting Device



The quickness and ease with which the sewing head may be raised or lowered is a feature you will appreciate. Simply raise the cover and the head and drop front swing up into position.

A Free Book of Instructions is Included with Each Machine



A Free Book of Instructions is Included with Each Machine

Brunswick Vibrating Shuttle

A GOOD sewing machine for less than $20. The Brunswick sewing head, although less expensive than our other models, is a good sewing machine and is backed by our 20 year guarantee. It will give many years of easy, perfect sewing. The case is of solid oak, substantially built and well finished in bright golden oak. The stand is well proportioned, allowing the operator a comfortable position.

$19.48

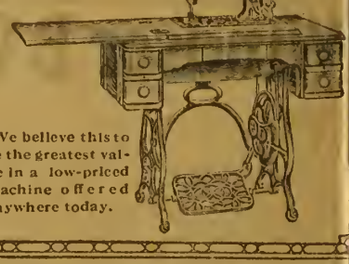
With this machine we include a complete set of tools, 12 needles, 6 extra bobbins and an illustrated instruction book. We also include a complete set of Greist attachments, made of high quality steel, nickel plated and packed in a neat box which will fit into the machine drawer. These attachments will save you money—you can make many trimmings that you otherwise would have to buy.

286 C 960—Cash Price.....**$19.48**

This model is not sold on the easy payment plan. Send the full purchase price with your order. If after you have tried this machine for 90 days, it does not please you, you only need write us for instructions how to return it. Full purchase price and freight charges will be refunded.

Shipping weight, 110 pounds

Shipped from Factory in Northern Illinois



We believe this to be the greatest value in a low-priced machine offered anywhere today.

Sewing Machine Supplies and Attachments

How to Order

Important! When ordering parts for any of our sewing machines, it is absolutely necessary for you to give us the name and number of your machine. By number we mean not only the number of the article in our catalogue, but also the machine number. This you will find underneath the front shuttle slide of all vibrating shuttle machines, and on the base of the sewing arm of rotary models. It is also on your guarantee.

Instruction Book

The Instruction Book which we include with all of our machines, contains complete lists of the various parts and their prices.

When ordering repair parts for machines other than ours, we require the name of the machine and sample of the broken parts.

Sewing Machine Needles

There is no such thing as a universal needle. If you do not use a needle made for your machine, the machine cannot do good sewing.

We carry Needles of all makes. When ordering needles be sure to send a sample pinned to a piece of cardboard or cloth, to prevent loss in transit. Also be sure to give us the name and number of your machine.

86 C 100—Per dozen.....19¢
Postage, per dozen, 2¢ extra

Accessories

Prices on the following Accessories are for our machines only. We can furnish these accessories for all makes of machines, but prices will vary.

Average shipping weight, each, 4 ounces.

86 C 101—Bobbins (long cylinder shuttle).
6 for.....14¢

86 C 102—Bobbins (round rotary shuttle).
4 for.....48¢

86 C 103—Long Cylinder Shuttle.....$ .69
86 C 105—Vibrator Ruffler..... .59
86 C 79—Rotary Ruffler..... 1.48
86 C 107—Needle Plate..... .30
86 C 109—Belts (all makes)..... .13
86 C 112—Small Screwdriver..... .05
86 C 111—Large Screwdriver..... .09
86 C 110—Spooler Rubbers (all makes).. .05
86 C 104—Rotary Bobbin Case..... 1.50
86 C 106—Pucker..... .35
86 C 108—Bobbin Winder..... 1.30
86 C 113—Oil Can. Ship. weight, 10 oz. .09

Sewing Machine Oil

A very high grade oil, absolutely stainless.

86 C 118—4-oz. bottle. Ship. wt., 12 oz..$ .14
86 C 119—1 Dozen 4-ounce Bottles..... 1.48

Genuine Greist Attachments

Nickel plated, velvet lined metal b... When ordering st... name of machine t... are to be used ... Shipping weight, ... set, 1 pound.

86 C 124—
For Vibrati... Machines.
Postpaid ... $1.3

86 C 123—For Rotary Machines.
Postpaid.....$2.

A Dress Form makes dressmaking easy. Page 180

Radio Book Free

You Can Easily Receive Radio Messages in Your Home, Without Previous Experience

Now you can sit back comfortably in your easy chair right in your own parlor and enjoy, without cost, the fine musical concerts and world's latest news, sent to you through the air. No longer need you spend dull evenings, nor is it necessary for you to leave the comfort of your own fireside to seek amusement when you have a Radio Receiving Outfit.

Think what this means to you, your family and your friends. It brings the best entertainment from nearby cities right into your own home for you to enjoy.

With our Radio Receiving Sets you can distinctly hear concerts, sermons, lectures, Board of Trade and stock reports, news items, weather forecasts and sporting news, which are sent from broadcasting stations situated in many sections of the country. One of these stations is in your vicinity, and it is simply a question of selecting the proper Radio Receiving Set to enable you to take advantage of these programs.

Remember—With one of our high grade Radio Receiving Sets, programs originating at broadcasting stations hundreds of miles away may be heard distinctly in your own parlor.

You need not be acquainted with Radio, for with our simple and complete instructions you can take any of the Receiving Outfits which we have assembled for you and easily install and operate it. Our complete instructions are written so that everyone can understand them. All you need to do is select the outfit that meets your requirements and the few connections that are necessary can be made without any difficulty. We tell you how.

Complete Assortment of Radio Parts

Those who are familiar with the construction of Radio Apparatus frequently buy the necessary parts to assemble their own Receiving Sets. Our complete assortment of high grade parts is also shown in our Radio Catalogue.

The Radio Sets We Sell Have Been Tested in Our Own Radio Station—We Know They Operate Successfully

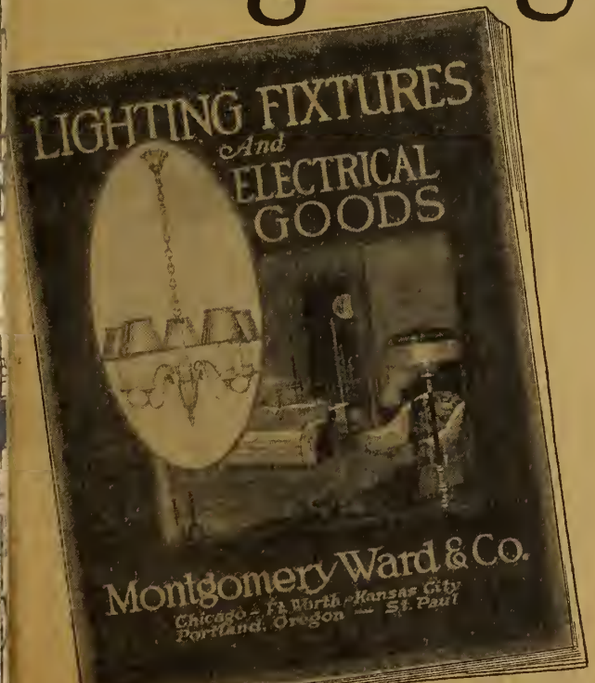
Every type of Radio Apparatus listed in our Radio Catalogue has been tested in our own Radio Station. We have selected outfits and materials made by the leading manufacturers of Radio Supplies in this country. The splendid results our customers are enjoying and the great army of Radio friends we have made is a positive indication that our Radio equipment is worthy of the strong guarantee that backs every sale.

Radio Sets Are Not Expensive

At the prices quoted in our free Radio Catalogue you need no longer deprive yourself and your family of this wonderful entertainer, instructor and business help.

Write TODAY for your FREE copy of our Radio Catalogue. Simply send us a postal and we will mail it at once.

Lighting Fixture Catalogue



Correct Lighting Fixtures for Your Home

Improper lighting, besides being very injurious to the eyes, interferes greatly with the study of the children and work done by the entire family. The soft mellow light which floods the rooms lighted by electricity not only protects the eyesight but adds greatly to the beauty of the home.

Naturally you want to make your home as cozy and attractive as possible. So much depends upon correct and artistic lighting that we have gone a long way to make it easy for you to find exactly what Electric Lighting Fixtures you will need this fall. Our new Lighting Fixture Catalogue shows the great variety of finishes we offer in ACTUAL COLORS, and it will be easy for you to select the finish that will blend best with the furnishings of your home.

In this big 64-page book practical suggestions for the arrangement of the Lighting Fixtures are both illustrated and described, showing how to light your home to the best advantage. The catalogue is yours for the asking. Simply drop us a postal requesting it.

Without Great Expense You Can Now Have Your Home Wired for Electricity—Let Our Experts Figure the Cost for You

We are prepared to furnish wiring estimates free and without obligation on your part. When you see how much money you can save at our prices, you can order all the necessary wiring materials from our Lighting Fixture Catalogue. The latest improved materials and methods are fully shown in this book. With every shipment of wiring materials we include a free book giving full instructions for wiring your home, so that you can take care of the work yourself, if you like. Let this catalogue be your guide when you want Lighting Fixtures of dependable quality at a low price.

Free Write for Your Copy Today

Simply send us a postal card containing your name and address and state which of these books you want. It will be mailed to you without delay.

Magnavox—the Best Loud Speaker that has Yet Been Developed

Stands on table where all may hear, without the use of head phones. For use in connection with Radio receiving sets. With a remarkable clearness it reproduces music, speeches, sermons, etc. The volume of sound can be so regulated that it can be toned down to meet the needs of the home but its carrying power can be increased so that large assemblies can hear the programs distinctly under ordinary conditions. Easy to operate. Connections are simple and there are no adjustments to make. Best results are obtainable with a set using one or two steps of amplification. No special circuits are required. Simply connect in place of head phones and attach six-volt current on horn circuit. Plate voltages on amplifier can be from 50 up to 300 volts, and 00 volts has been found to be a good working voltage. The higher the voltage, the louder the sound. Horn diameter, 14 inches. Black enamel finish. Shipping wt., 17 pounds.

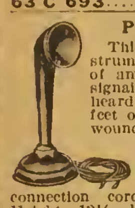
563 C 690.................... **$45.00**

Loud Speaker Radio Horn

With this Horn you may make your own loud speaker by simply inserting one of the phones from your headset in the base. Carefully constructed of brass throughout. Black enameled finish. Any make of radio receiver may be used. Works best on two stages of amplification, although one stage often produces sounds of sufficient volume. Ship. weight, 4 lbs.

63 C 693........................ **$4.69**

Pielophone Loud Speaker



This complete loud speaking instrument, when used with two stages of amplification, will give sufficient signal intensity so that it may be heard distinctly for a distance of 15 feet or more. Consists of a special wound high resistance receiver mounted in the base, to which is connected a heavy amplifying horn. Finished in black enamel. Fitted with six feet of green silk connection cord. Base diameter, 5 inches. Height, 12½ inches. Bowl diameter, 3⅝ inches. Shipping weight, 4 pounds.

63 C 695........................ **$13.75**

Head Phone Set

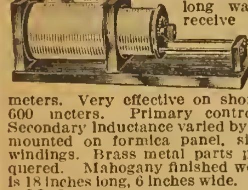
High Grade Supersensitive Radio Receivers

A high grade set of Head Phones offered at a very reasonable price. Equal in sensitiveness and results to many phones selling at much higher prices. Light in weight and of substantial, durable construction. Headband is covered with heavy webbing. Black polished, molded receiver cases. Six-foot connecting cord with enclosed terminals. Equally suitable for use on the highest grade sets or the inexpensive crystal sets. Ship. wt., 1½ lbs.

63 C 5160—2000 ohms total resistance. **$4.80**

63 C 5161—3000 ohms total resistance. Per set **$5.75**

Arlington Type Receiving Transformer



An efficient, high grade long wave tuner. Will receive all government time stations such as Arlington and Key West. Works up to 4,000 meters. Very effective on short waves, 200 to 600 meters. Primary controlled by slider. Secondary inductance varied by a 10-point switch mounted on formica panel, silk covered wire windings. Brass metal parts polished and lacquered. Mahogany finished woodwork. Base is 18 inches long, 6 inches wide. Ship. wt., 14 lbs.

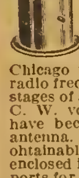
563 C 601 .... **$7.70**

Two Slide Radio Tuning Coil

Machine spaced enameled copper wire winding. Nonshrinkable tube. Control is by means of two smooth working sliders. Mahogany finished end pieces. Range up to 1,000 meters on average antenna. Length, 8¾ inches. Ship. wt., 4 lbs.

63 C 5104—Each.................. **$3.10**

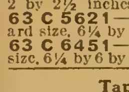
Radio Frequency Amplifying Transformer



Air core type, with windings in pancake style. This Transformer will give very satisfactory results on a wavelength band from 180 to 500 meters. During tests conducted in Chicago using a hookup including one step of radio frequency amplification, a detector and two stages of audio frequency amplification, Amateur C. W. voice stations along the Atlantic coast have been heard with an ordinary one wire antenna. Also, very long ranges of reception are obtainable with indoor loop antennas. Windings enclosed in sealed case with connections and supports for mounting. Shipping weight, 1 pound.

63 C 6639.................. **$4.40**

Vacuum Tube Plate Circuit Battery



Our "B" Batteries are made of the finest materials by one of the best battery makers. We guarantee them to equal in results any battery on the market. Fresh stock at all times.

63 C 5618—22½-volt battery. Size, 3¼ by 2 by 2½ inches. Ship. wt., 2 pounds ...**98¢**

63 C 5621—22½-volt battery, Navy standard size, 6¼ by 4 by 3 in. Ship. wt., 5 lbs. **$1.73**

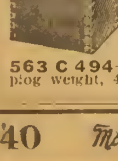
63 C 6451—45-volt battery double navy size, 6¼ by 6 by 3 in. Ship. wt., 9 lbs.... **$3.40**

Tapped "B" Battery

63 C 6455—22½-volt, Navy size Battery. Dimensions, 6¼ by 4 by 3 inches. Tapped to give 21, 19½, 18 and 16½ volts. Shipping weight, 3 pounds **$1.80**

63 C 6457—45-volt, double Navy size Battery. Dimensions, 6¼ by 4 by 6 inches. Tapped to give 45, 22½, 21, 19½, 18 and 16½ volts. Shipping weight, 9 pounds.................. **$3.60**

Storage "A" Battery



A Battery specially designed for radio purposes; extra heavy plates. The case is made of fine natural colored, varnish finished hard maple with dovetailed corners. Rubber covered wire terminal leads with brass wire connectors.

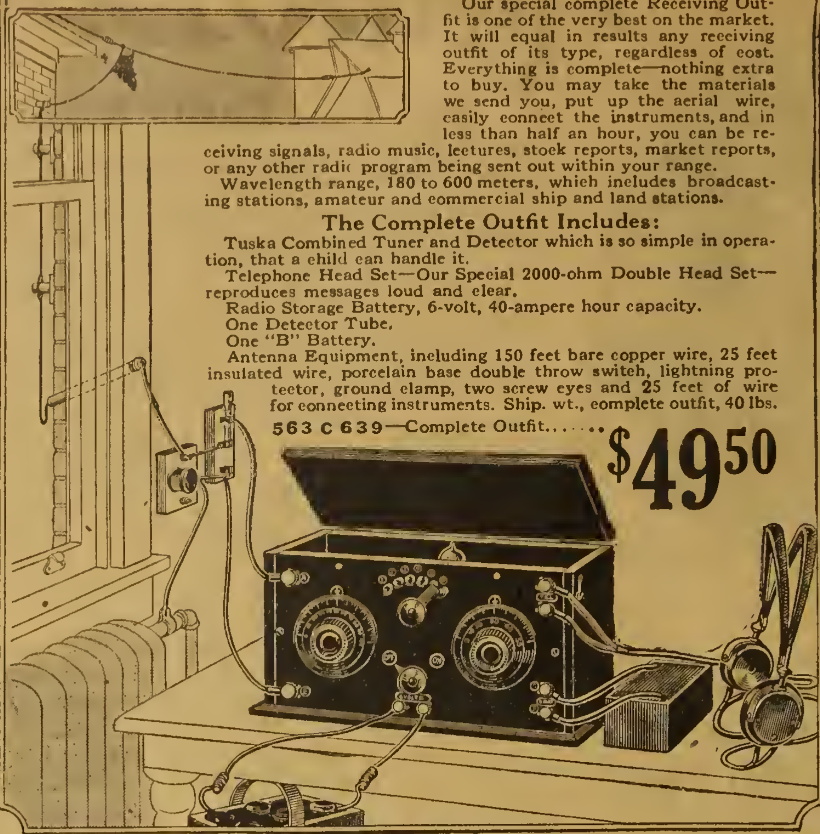
563 C 492—6-volt 40-ampere size. Ship. wt., 30 lbs. **$9.95**

563 C 494—6-volt 75-ampere size. Shipping weight, 42 pounds.................. **$13.25**

Our Special Complete

Radio Receiving Outfit

Simple to Operate—Best Results



Our special complete Receiving Outfit is one of the very best on the market. It will equal in results any receiving outfit of its type, regardless of cost. Everything is complete—nothing extra to buy. You may take the materials we send you, put up the aerial wire, easily connect the instruments, and in less than half an hour, you can be receiving signals, radio music, lectures, stock reports, market reports, or any other radio program being sent out within your range.

Wavelength range, 180 to 600 meters, which includes broadcasting stations, amateur and commercial ship and land stations.

The Complete Outfit Includes:

Tuska Combined Tuner and Detector which is so simple in operation, that a child can handle it.

Telephone Head Set—Our Special 2000-ohm Double Head Set—reproduces messages loud and clear.

Radio Storage Battery, 6-volt, 40-ampere hour capacity.

One Detector Tube.

One "B" Battery.

Antenna Equipment, including 150 feet bare copper wire, 25 feet insulated wire, porcelain base double throw switch, lightning protector, ground clamp, two screw eyes and 25 feet of wire for connecting instruments. Ship. wt., complete outfit, 40 lbs.

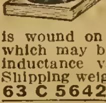
563 C 639—Complete Outfit...... **$49.50**

Variometers

A high grade Variometer. May be used separately for grid and plate tuning in any audio or radio frequency tuner. Designed for very low dielectric losses and maximum range of inductiveness. Rotor element contacts are positive and permanent. Solidly built; ¼-inch shaft. Shipping weight, 2¼ pounds.

63 C 5640.................. **$4.45**

Variocoupler



A high grade loose Coupler, designed especially for use in conjunction with the wood frame variometers, quoted above. The secondary is wound on a rotating element turned out of kiln-dried wood. The primary is wound on a bakelite tube and has seven taps which may be connected to switch points and the inductance varied by means of a switch lever. Shipping weight, 2¼ pounds.

63 C 5642.................. **$3.80**

Graphite Potentiometer

Used for regulating filament current of detector tubes. Resistance may be varied accurately and evenly. Nearly pure graphite, molded solid. Outside diameter, 2 13/16 inches. Inside diameter, 2 3/16 inches. Cross section size, 9/32 by ⅜ inch. Resistance, 4000 ohms. Ends copper plated. Shipping weight, 3 ounces.

63 C 5620.................. **69¢**

Variable Condenser

Table Mounting Type

Both stationary and rotary plates stamped from sheet aluminum. Accurately machined spacers insure perfect centering of plates. Square formica sheet ends with engraved scale. Regulating dial and pointer. Ship. weight, 3 pounds.

63 C 6480—21-plate size. Capacity, .0005 mfd. **$3.69**

63 C 6481—43-plate size. Capacity, .001 mfd. **$4.45**

Panel Mounting Type

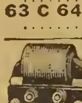
This is the same high grade Condenser shown above. May be mounted on any panel up to ⅜ inch in thickness. Shipping weight, 2 pounds.

63 C 6484—11-plate size. Capacity, .00025 mfd.................. **$2.65**

63 C 6485—21-plate size. Capacity, .0005 mfd. **$2.95**

63 C 6486—43-plate size. Capacity, .001 mfd. **$3.25**

Audio Frequency Amplifying Transformers



Designed to meet the requirements of Radiotron UV-201 and Cunningham C-301 tubes. Winding ratio of 10 to 1. Specially constructed, produce maximum amplification without distortion or howling. Shipping weight, 1 pound.

63 C 6426—Mounted.................. **$4.05**

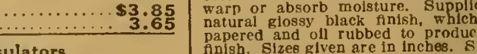
63 C 6428—Unmounted.................. **3.15**

Same high grade Transformer wound with 3 to 1 ratio, especially for use with A. P. Moorhead, Western Electric and similar tubes. Also desirable for 3rd and 4th stage of amplification when using Radiotron UV-201 or Cunningham 301 tubes. Shipping weight, 1 pound.

63 C 5140—Mounted.................. **$3.85**

63 C 5141—Unmounted.................. **3.65**

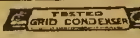
Electrose Insulators



These Insulators have been used for radio purposes a number of years. They are molded of a shellac base composition which gives good service as an insulator. Have galvanized wrought iron eyes for attaching wires. Ship. wts., ¾ lbs. 2 lbs. and 2½ lbs.

Article Number	Diam. In.	Length In.	Strgth. Lbs.	Elec. Value Dry Volt	Elec. Value Rain	Price
63 C 5630	2⅛	3¼	250	40,000	25,000	28¢
63 C 5631	1½	4	1,000	40,000	15,000	35¢
63 C 5632	1½	10½	1,000	90,000	50,000	61¢

Receiving Condenser



Special type Receiving Condenser. The foil and insulation are wrapped around a fiber sheet. Connections are made by means of rivets in the ends of the condenser. Very compact. Equal in results to any other phone condenser. Capacity, .002 mfd. Shipping weight, 2 ounces.

63 C 6351.................. **19¢**

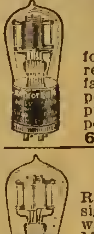
Fixed Receiving Condenser

A necessity on every receiving set. Used as "stopping" Condenser or for shunting across telephones. Moulded bases. Nickel plated binding posts. Shipping weight, 8 ounces.

63 C 5362—Capacity, .01 mfd.................. **74¢**

63 C 5364—Capacity, .005 mfd.................. **59¢**

Vacuum Tube Detector Radiotron U. V. 200



This is a "soft" Tube especially suited for detector use. It produces excellent results in regenerative circuits. Has the familiar hissing point and low B battery potential requirements. Standard four-prong mounting. Shipping weight, 1 pound.

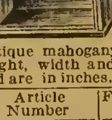
63 C 5194.................. **$5.00**

U. V. 201 Amplifier Tube

A high vacuum Amplifier and detector. Requires no critical adjustment. Designed for amplification and undamped wave reception by the regenerative method. May be used singly for receiving continuous waves or in cascade as a two or more step amplifier. Shipping weight, 1 pound.

63 C 5192.................. **$6.50**

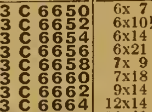
Potentiometer



Suitable for either panel or table mounting. Adjustable to panel of any thickness up to ⅜ inch. Permits very close adjustment of plate circuit current. Resistance, 300 ohms. Shipping weight, 8 ounces.

63 C 6368.................. **$1.65**

Wood Cabinets



The cabinets we offer are attractive in design and are of uniform style so you may use cabinets of different sizes and have them all match up. Lids or tops are hinged. Fine dull antique mahogany finish. Dimensions given for height, width and depth are inside measurements and are in inches.

Article Number	For Panel Size	Depth	Ship. Wt. Lbs.	Each
63 C 6650	6x 7	7	5¼	$2.40
63 C 6652	6x10½	7	6	2.69
563 C 6654	6x14	7	7	3.18
563 C 6656	6x21	7	12	3.80
563 C 6658	7x 9	7	6	2.80
563 C 6660	7x18	7	11¾	3.90
563 C 6662	9x14	10	10	3.58
563 C 6664	12x14	10	11	4.25
563 C 6666	12x21	10	13	4.97
563 C 6668	14x18	10	13	5.10

Radio Panels

We supply Formica, Bakelite or Condensite celeron, whichever we may have in stock at the time your order is received.

These panels are standard for mounting radio instruments in a cabinet. They have a high dielectric strength and a mechanical strength far greater than ever will be needed. Machine easily and will not warp or absorb moisture. Supplied in handsome natural glossy black finish, which may be sandpapered and oil rubbed to produce a velvet satin finish. Sizes given are in inches. Shipping weights, 2 to 8 pounds.

Size	⅛-Inch Thick Article Number	⅛-Inch Thick Each	3/16-Inch Thick Article Number	3/16-Inch Thick Each
6x 7	63 C 6670	$ .50	63 C 6680	$ .75
6x10½	63 C 6671	.75	63 C 6681	1.13
6x14	63 C 6672	1.00	63 C 6682	1.50
6x21	63 C 6673	1.50	63 C 6683	2.25
7x 9	63 C 6674	.75	63 C 6684	1.13
7x18	63 C 6675	1.50	63 C 6685	2.25
9x14	63 C 6676	1.50	63 C 6686	2.25
12x14	63 C 6677	2.00	63 C 6687	3.00
12x21	63 C 6678	3.00	63 C 6688	4.50
14x18	63 C 6679	3.00	63 C 6689	4.50

Unmounted Honeycomb Inductance Coils

High grade efficient inductance coils at attractive prices. Made firm by varnish impregnation. Wavelength is in meters with .001 mfd. condenser. Not mounted.

Shipping weight, 4 to 16 ounces.

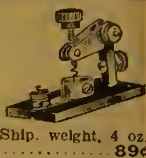
Article Number	No. Turns	Approximate Wave Length Range	Each
63 C 5470	25	130— 250	$.39
63 C 5471	35	180— 450	.42
63 C 5472	50	250— 700	.49
63 C 5473	75	400— 900	.55
63 C 5474	100	500— 1,000	.59
63 C 5475	150	600— 1,200	.62
63 C 5476	200	1,000— 2,500	.65
63 C 5477	300	1,500— 4,500	.73
63 C 5478	400	2,000— 6,000	.78
63 C 5479	600	4,000—10,000	.98
63 C 5480	1,000	8,000—15,000	1.38
63 C 5481	1,250	10,000—20,000	1.72
63 C 5482	1,500	16,000—25,000	2.17

Weatherproof Detector

Very rugged. Perfect easy adjustment. Phosphor bronze contact spring may be set and locked in any position. A piece of tested galena set in Wood's metal is mounted inside dust and moisture proof enclosed glass cylinder. Formica base, 2 by 2 by ⅜ inches. Shipping weight, 1 pound.

63 C 5303..... **$1.95**

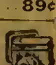
Wizard Detector Stand



This Detector Stand is a wonderful value for the money. Uses any detector mineral. Adjustment may be made to any position. Sheet formica base, size 1½ by 2½ inches. Metal parts brass, nickel finish. Ship. weight, 4 oz.

63 C 6535.................. **89¢**

Detector Crystals



Genuine Arlington tested minerals. Absolutely the best Crystals that can be purchased at any price. Each is thoroughly tested and guaranteed. Extremely sensitive. Packed separately in sealed boxes. Shipping weight, 3 ounces.

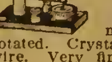
63 C 5320—Supersensitive Galena. Each.................. **22¢**

63 C 5322—Supersensitive Silicon. Each.................. **22¢**

63 C 5324—"Radiocite." Each........ **18¢**

Standard Galena Detector

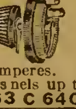
Improved Model



Tested piece of galena is mounted in cup which may be rotated. Crystal contact of phosphor bronze wire. Very fine adjustment obtainable with screw. Molded base and adjustment knob. Base size, 3 by 3 inches. Shipping weight, 1 pound.

63 C 5305.................. **$1.43**

Panel Mounting Rheostat



Used to regulate filament current to detector or amplifier tubes. Correct mechanical construction. Not affected by heat. Capacity, 1½ amperes. Resistance, 6 ohms. Mounts on panels up to ½ inch thick. Ship. weight, 6 oz.

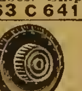
63 C 6401.................. **83¢**

Porcelain V. T. Socket

Made entirely of glazed white porcelain. High dielectric strength. So rugged as to be practically unbreakable. Positive contact. Easily mounted on panel or base. For amplifier, detector or power tubes. Shipping weight, 8 ounces.

63 C 6419.................. **57¢**

Radio Dial and Knob



Molded in one piece of polished black material. Finely engraved 180° scale in contrasting white enamel. Ship. weights, 5 and 7 oz.

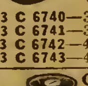
63 C 6740—3-in. diam. for 3/16-in. shaft...... **59¢**

63 C 6741—3-in. diam. for ¼-in. shaft..... **59¢**

63 C 6742—4-in. diam. for 3/16-in. shaft...... **80¢**

63 C 6743—4-in. diam. for ¼-in. shaft ...... **80¢**

Our Special Inductance Switch

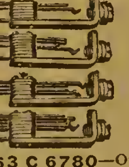


High grade smooth working switches. Black polished composition knobs, nickel finished phosphor bronze spring and bushings. Panel bushing adjustable to any thickness up to 5/16 inch. Perfect contact. Shipping weight, each, 3 ounces.

63 C 6774—Radius, 1¼ inches........ **39¢**

63 C 6775—Radius, 1½ inches........ **39¢**

Radio Jacks



Especially designed for radio work. Very compact, carefully constructed, finely finished. May be mounted on panels up to ¼ inch in thickness. Contact points are silver. Nickel plated polished frame. Shipping weight, each, 3 ounces.

63 C 6780—Open circuit......... **$ .57**

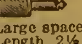
63 C 6781—Closed circuit......... **.69**

63 C 6782—2 circuit............ **.80**

63 C 6783—3 Spring. Filament control.................. **.89**

63 C 6784—5 spring. Filament control.................. **1.15**

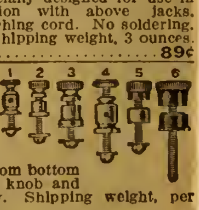
Radio Plugs



Especially designed for use in connection with above jacks. Large spaces for attaching cord. No soldering. Length, 2⅛ inches. Shipping weight, 3 ounces.

63 C 6785 Each.................. **89¢**

Binding Posts



Metal parts of brass, polished nickel finish. All have ⅝-inch long 6/32 screws with washers. Sizes given are from bottom of shoulder to top of knob and do not include screw. Shipping weight, per dozen, about 8 ounces.

63 C 5601—Style 1, Length, 13/16 inch. Ea. 6¢. Dozen.................. **48¢**

63 C 5636—Style 2, Length, 9/16 inch. Ea. 6¢. Dozen.................. **55¢**

63 C 5638—Style 3, Length, 1 1/16 inch. Ea. 9¢. Dozen.................. **89¢**

63 C 5603—Style 4, Length, 15/16 inch. Ea. 9¢. Dozen.................. **89¢**

63 C 5644—Style 5, Length, 11/16 inch. With black molded knob. Each, 8¢. Dozen.................. **75¢**

63 C 5605—A large size black molded knob and base. Base molded onto one inch long 19/32 screw. Length of base and knob, 15/16 inch. Each, 17¢. Dozen.................. **$1.95**

For full line of Radio sets and parts send for our Special Radio Catalogue.

Electrical Goods

Polar Cub Vibrator

A motor driven Vibrator which gives the correct scientific movement. Powerful enough for highly satisfactory results in home treatments. Finely finished. Light weight. Very durable. Complete with 3 applicators, six-foot attaching cord and instructions. For use on 105 to 120-volt alternating or direct current. Net weight 1½ pounds. Shipping weight, complete, 3 pounds.

63 C 1572—Complete.....**$4.55**

Home Massage Vibrator

$9.90

High grade motor operated instrument. Runs smoothly and quietly. Recommended for home and semi-professional use. Six-foot connecting cord, attaching plug, instruction book, and four different applicators included. For use on 110-volt alternating, or direct current. Shipping weight, complete, 5 pounds.

63 C 1576—Complete.....**$9.90**

Fine Quality Vibrator

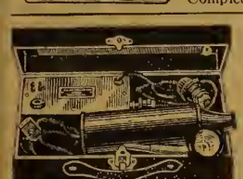
Gives a strong vigorous kneading vibration when desired or a milder motion for light applications. With it the benefits of massage may be obtained by any one right in the home and at a cost of but a few cents per treatment. Switch regulates speed. Six applicators and complete instructions included. Equipped with six-foot attaching cord and plug. Shipped in attractive case. Shipping weight, 5 pounds.

63 C 1578—For 105-120 volt current.**$15.50**
63 C 1579—For 30-32 volt current.....**15.50**

Two Cell Medical Battery

Complete with two dry batteries, one electric hair brush, one nickel plated foot plate, two 3-foot conducting cords, two sponge electrodes with two insulating wooden handles. Two metal hand electrodes, and book on home electro-medical treatment. Gives a varying intensity of current. Size of cabinet, 6½ by 8¾ by 8 inches. Shipping weight, complete, 15 pounds.

463 C 475—Complete.....**$9.45**



Home Violet Ray Machine

A most interesting and valuable development of science during the past few years has been the application of electricity and electrically produced light rays to the relief and cure of many minor ailments.

The Violet Ray Machine we offer here is very effective and may be used for medical, dental, toilet and beauty purposes. Consult your doctor about its various uses.

For home use only. Size, 10 by 5½ by 3 inches. For 105 volt to 120 volt current. Shipping weight, complete, 4 pounds.

63 C 1553—Complete.....**$9.40**

$5.70 Combination Curler, Waver and Comb

Electrically heated. You do not come in contact with current. Makes lasting waves or curls. Cord will not kink when in use. Comb is aluminum. All other metal parts attractively nickel plated. Handle is ebonized. Comb acts as tonic for hair and scalp—makes hair luxuriant and dries it quickly. Complete with 6-foot cord and plug to attach to any lighting socket. For use on 105 to 120 volt current. Shipping weight, 2 pounds.

63 C 1897.....**$5.70**

Electric Curling Iron and Waver Rod

Curls quickly without bother and may be used as a Waver Rod. Very handy when traveling; 6-foot cord and plug for attaching to any ordinary light socket; ⅜-inch rod. Metal parts nickel plated. Heating parts guaranteed. For 105 to 115-volt current. Ship. wt. 2 lbs.

63 C 1894.....**$3.95**

Electric Curling Iron

Similar to 63 C 1894 but with smaller rod, and shield is not detachable; ⅝-inch rod. Metal parts nickel plated. Heating parts guaranteed. Six-foot cord and plug. For 105 to 115-volt current. Shipping weight, 2 pounds.

63 C 1895.....**$2.90**

A Quality Electric Iron at a Low Price

$3.25

The special low prices at which we are offering these Electric Irons are much below their present market value. You will recommend this iron to your friends after you have seen the splendid work it does. Fully guaranteed. We will replace promptly any Irons which prove unsatisfactory. They are perfectly balanced—a feature which will appeal strongly to the housewife who does her own ironing, especially if the ironing is large. It does away with unnecessary tiresome strain. Heavily nickel plated and highly polished. Excellent quality heating parts. Complete with stand, six-foot attaching cord and plug. Net weight, 6 pounds—the most effective and convenient weight, as has been proved by the experience of thousands of women. For use on 105 to 120-volt current. Specially priced to save you money. Shipping weight, 8 pounds.

63 C 1801.....**$3.25**

Combination Toaster Range

Toaster **$2.30**

Sturdy Electric Stove. Makes toast, two slices at a time, grills meat, cooks, fries and boils without heating up room. Top size, 9 by 5½ inches. Metal parts nickel plated and polished. Complete with 6-foot cord and plug. Uses 550 watts current. For 108 to 120-volt current. Shipping weight, 3 pounds.

63 C 1855.....**$2.30**

Electric Percolator Set

A Fine Quality Article at a Very Low Price

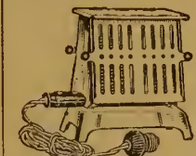
Set consists of 10-cup Electric Percolator; tray, 12 by 16 inches; sugar bowl and gold-lined creamer. Percolator made of copper, nickel plated and polished; fiber tipped feet. Heats quickly and retains heat. Artistically shaped mahoganite handles on percolator and tray. Tray, sugar and creamer are nickel plated and polished. Inside of percolator and sugar bowl have double tinned finish. Will not tarnish. Operated right on table. Convenient and clean; 6-foot cord and plug included. Uses 400 watts current. For 105 to 110-volt current. Shipping weight, complete set, 12½ pounds; Percolator only, 5 pounds.

463 C 705—Complete set.**$33.95**
463 C 706—Percolator only**18.45**

Flat Top Toaster

Toasts bread, cooks, fries, boils. Top 6 inches square. Metal parts nickel, satin finished. Complete with 6-foot cord and plug. For 110 volts. Uses 500 watts current. Shipping weight, 2 pounds.

63 C 1857.....**$1.49**



De Luxe Electric Toaster

Turns toast automatically by dropping door. You will enjoy the real toast made by this Toaster. Fully nickel plated. We know of no higher grade toaster. Equipped with 6-foot cord, handy push switch and separable attachment plug. For 108 to 120-volt current. Uses 500-watt current. Shipping weight, 3 pounds.

63 C 1850.....**$4.95**

Single Burner Electric Hot Plate

$2.95

Single Burner Hot Plate. Will cook or stew anything which may be cooked on any regular stove. Very convenient. May be attached to any lamp socket. Fitted with a 6-foot cord and attaching plug. For use on 108 to 120-volt current. Uses 660 watts. Metal parts cast aluminum, highly polished. Shipping weight, 4 pounds.

63 C 1856.....**$2.95**

Benjamin Plug Clusters

Screw into regular Edison base lighting sockets. Gives the socket two or three outlets instead of one. Takes standard Edison plug as furnished with all modern electrical appliances. Saves the bother of removing the light to attach whatever appliance you may wish to use. Shipping weight, each, 7 to 10 ounces.

63 C 4485—Benjamin 2-light cluster. Each.....**$.87**
Three for.....**2.45**

63 C 4487—Benjamin 3-light cluster. Each.....**1.17**

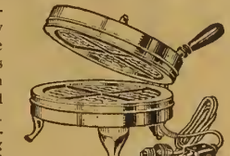
63 C 4488—Benjamin 2-light cluster, same type as 63 C 4485, but has pull chain for turning light on and off. Each.....**$1.21**

63 C 4484—Shade holder for above clusters. Ship. Wt., Each, 1 oz....**12¢**

Sanitary Electric Waffle Iron

Has several features not usually found on Electric Waffle Irons. Makes delicious, golden brown waffles, round in shape, full size. Plates easily removed for washing without danger to heating parts. Height, 5½ inches; diameter, 8 inches. 6-foot cord and plug. For use 105-120 volt current. Shipping weight, 6 pounds.

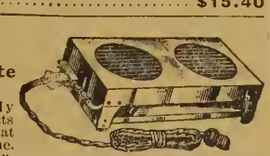
63 C 1872.....**$15.40**



Duplex Electric Kitchenette Stove

Economically cooks or toasts several foods at the same time. Especially convenient for preparing breakfast, light meals, or a lunch before retiring. Ideal for use in the sick room or nursery. Uses only 660 watts—but little more than some electric irons use. Or only half of its capacity need be used, consuming only 330 watts. Length, 6¾ inches; width, 4 inches; height, 7 inches. For use on 105-120 volt current. Shipping weight, 8 pounds.

63 C 751—Complete with 6-foot cord and attaching plug.....**$8.95**



Immersion Heater

Quickly heats or boils any liquid into which it is plunged. Much used by doctors and dentists for sterilizing. Very handy for the sick room, nursery, and wherever warm or hot liquids are required instantly. No muss. No trouble. Rustproof. Polished nickel finish. Six-foot cord and attaching plug. For 108 to 120-volt current. Shipping weight, 2 pounds.

63 C 1886.....**$3.15**

A Fine Heating Pad Priced Low

$6.65

Far superior to hot water bottle for all dry applications of heat to body. Maintains an absolute even degree of heat and will not overheat. Equipped with switch for regulating temperature. Covered with soft eiderdown. Size, 12 by 15 inches. Equipped with 10-foot cord, attaching plug. Low, medium and high control switch. For use on 105 to 115-volt current.

Shipping weight, 3 pounds.

63 C 1560.....**$6.65**

Four-Heat Electric Iron

$4.85

Has many advantages over single heat types. Change from one heat to another by moving attachment plug. For damp pieces use high heat, for ordinary work medium heat and for light work medium or low heats. Heavily nickel plated. Complete with 6-foot cord and attachment plug. Uses 575, 400, 175 or 120 watts. Weight, 6 pounds. Shipping weight, 8 pounds.

63 C 1810—For current 105 to 120 volts.....**$4.85**
63 C 1811—For farm lighting plant current 30 to 32 volts.....**$5.15**

Hot Point Electric Iron

$5.98

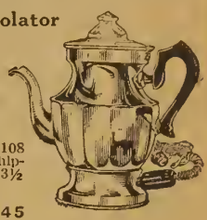
A well known standard Electric Iron. Heat is concentrated at point where most needed. Iron may be tipped on end. No stand needed. Heating parts guaranteed. Top, sides and bottom nickel plated. Ebonized wood handle. Six-foot cord and attaching plug. Uses 575-watt current. For 110-volt current. Weight, 6 pounds. Shipping weight, 8 pounds.

63 C 1835.....**$5.98**

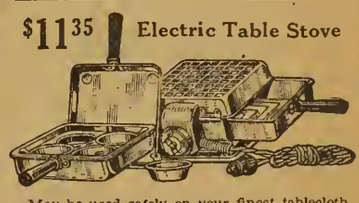
Electric Percolator

Quick acting. Paneled sides. Highly polished finish. Ebonized wood handle will not heat; 6-foot cord and attaching plug, 9 cup size. Uses 450 watts. For use on 108 to 120-current. Shipping weight, 3½ pounds.

463 C 712—.....**$6.45**



$11.35 Electric Table Stove



May be used safely on your finest tablecloth. Clean uniform heat is distributed over 7 by 7-inch surface. Most convenient way to prepare bacon, steak and other meats; bakes muffins, biscuit, potatoes or cookies; steams rice, breakfast foods, custards; boils coffee, toasts four slices of bread at one time. Convenient assortment of aluminum pans, included; also cup cake pan to meet all requirements. Metal parts nickel plated. Switch regulates heat; 6-foot attaching cord. Uses 660 watts on high, 330 on medium, 165 on low. For 108 to 120-volt current. Shipping weight, 8 pounds.

463 C 700.....**$11.35**

Cord For Electric Heating Devices

This Extension Cord multiplies their convenience many times. Fits all makes of electric irons, toasters, and other electrical heating devices having detachable cord; 7 feet of best quality asbestos insulated heater cord with separable plug on one end for attaching to heating device. Shipping weight, 1 pound.

63 C 4682—With indicating switch in cord.....**$1.28**
63 C 4684—Without switch.....**.88**
63 C 4671—Plug for attaching to heating device. Shipping weight, 4 ounces.....**23¢**
63 C 4512—Switch only; for controlling current. Shipping weight, 5 ounces.....**40¢**

Round Portable Heater

For bath rooms, bedrooms, garages and other uses. Quickly removes chill; 9-foot cord with attachment plug. Height, 7½ inches. Diameter of base, 12 inches. Uses 660-watt current. For 108 to 120-volt current. Shipping weight, 8 pounds.

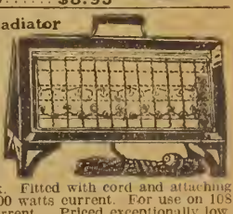
463 C 725.....**$5.20**

Portable Radiant Heater

Does away with the discomfort and danger of chilly rooms. Concentrates hot glow directly where heat is wanted. Especially suited for bath rooms, nurseries and small rooms or for drying the hair. Has 9-foot cord and attachment plug. Switch in cord for controlling current. Uses 615 watts. 108 to 120-volt current. Height, 16 inches. Shipping weight, 7 pounds.

463 C 730.....**$8.95**

Portable Radiator



Attaches to any lamp socket. Takes chill from small rooms. Height, 12 inches. Length, 16½ inches. Width, 6½ inches. Finish, dull black. Fitted with cord and attaching plug. Uses 600 watts current. For use on 108 to 120-volt current. Priced exceptionally low. Shipping weight, 8 pounds.

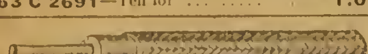
463 C 760.....**$4.95**

Approved Electrical

Insulated Wire Connector

By the use of the Wire Connectors shown here it is possible to eliminate entirely the muss and labor of soldering joints, and to complete your wiring installation in considerably less time. A screwdriver is the only tool required. Makes an Underwriter's approved connection. For fixture outlets and motor leads. We believe them to be the best method of making splices or taps known today, and we recommend their use in all installations. They save time, trouble, money and material. Used for connecting sizes 12 and 14 single conductor wire only. Shipping weight, each, 2 ounces.

63 C 2690—Each .... $ .12
63 C 2691—Ten for 1.05



Single Braid, New Code Rubber Covered Wire

Solid conductor Copper Wire, insulated with rubber compound over which is one cotton saturated braid. Recommended for any open wiring on cleats, tubes or knobs, and for loom and moulding wiring. Each unbroken coil of 500 ft. bears Underwriters' Inspection tag. Sold only in lengths listed. Shipping weight, per 100 feet, 3 to 18½ pounds, according to size.

Article Number	Size	Price 10Ft.	Price 25 Ft.	Price 100 Ft.	Price 500 Ft.
63 C 3015	14	....	$ .29	$ .95	$4.50
63 C 3020	12	....	.39	1.35	6.25
63 C 3025	10	....	.49	1.78	8.15
63 C 3028	8	29¢	.65	2.38	10.95
63 C 3032	6	49¢	1.04	3.69	17.40
63 C 3036	4	65¢	1.42	4.95	23.75

New Code, Rubber Covered Wire, Double Braid

Offers better protection to mechanical wear than single braid wire. Should be used in all metallic conduits, flexible or rigid. Has one solid conductor, insulated with rubber compound over which are two saturated cotton braids. Sold only in lengths listed. Shipping weights, per 100 feet, 4 to 18½ pounds, according to size.

Article Number	Size	Price 10Ft.	Price 25 Feet	Price 100 Feet	Price 500 Feet
63 C 3040	14	....	$ .39	$1.25	$5.48
63 C 3045	12	....	.52	1.58	7.38
63 C 3050	10	....	.65	2.10	9.50
63 C 3055	8	35¢	.79	2.75	12.45
63 C 3060	6	52¢	1.15	4.20	18.95
63 C 3065	4	69¢	1.42	5.25	24.25

Weatherproof Copper Wire

For use on outside work only. Withstands weather better than rubber covered wire. Conductor is of solid copper wire, covered with three layers of cotton braid, saturated with weatherproof insulating material. Sold only in lengths listed. Shipping weight, per 100 feet, 2½ to 16½ pounds, according to size.

Article Number	Size	Price 10Ft.	Price 25 Ft.	Price 100 Ft.	Price 500 Ft.
63 C 3125	14	....	$.24	$ .79	$3.66
63 C 3130	12	....	.30	.98	4.60
63 C 3135	10	....	.42	1.55	6.50
63 C 3140	8	23¢	.55	1.95	8.65
63 C 3145	6	34¢	.76	2.75	12.60
63 C 3150	4	49¢	1.13	3.95	18.45

Lead Covered Cable

For underground or underwater use. Consists of solid copper wire conductors, insulated with new code rubber compound over which is saturated taping, enclosed in continuous lead sheath, which is protection against action of gases, acids and other destructive elements.

Article Number	Size Wire	No. of Wires	Shipping Wt., per 100 feet	Price Per Foot	Price Per 100 Feet
63 C 3328	14	1	22 lbs.	4¢	$3.15
63 C 3330	14	2	35 lbs.	7¢	5.45
63 C 3332	12	1	25 lbs.	5¢	3.60
63 C 3335	12	2	39 lbs.	9¢	7.65
63 C 3337	10	1	29 lbs.	7¢	5.25
63 C 3340	10	2	47 lbs.	11¢	8.95
63 C 3342	8	1	33 lbs.	8¢	6.35
63 C 3345	8	2	66 lbs.	14¢	11.25

New Code Twisted Pair Cotton Lamp Cord

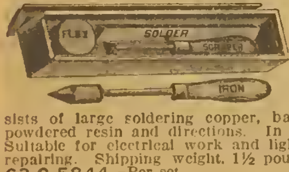
Two conductor, twisted New Code Lamp Cord. Full coils bear Underwriters' Inspection tag. Conductor consists of fine copper wire strands, twisted together. Covering is of fine quality, interwoven yellow and green cotton. This cord is used for drop lights and extensions. Sold only in lengths listed. Shipping weight, per 100 feet, 6 to 12 pounds, according to size.

Article Number	Size	Price 10Ft.	Price 25 Ft.	Price 100 Ft.	Price 250 Ft.
63 C 3175	18	20¢	45¢	$1.65	$3.95
63 C 3180	16	28¢	65¢	2.25	5.30
63 C 3185	14	38¢	87¢	3.15	7.40

New Code Reinforced Portable Lamp Cord

Consists of twisted pair Lamp Cord, over which is a seamless rubber jacket, and outer braid of mercerized cotton. The best cord for portable extension lights, lamps and vacuum cleaners. Stands wear well. Sold only in lengths listed. Shipping weight, per 100 feet, 9 pounds.

Article Number	Size	Price 10 Feet	Price 25 Feet	Price 100 Feet
63 C 3250	18	31¢	71¢	$2.48



Soldering Set

A complete outfit for doing ordinary small soldering. Consists of large soldering copper, bar of solder, powdered resin and directions. In wooden box. Suitable for electrical work and light household repairing. Shipping weight, 1½ pounds.

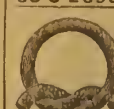
63 C 5844—Per set $1.45

Wire "T" Connector

Similar to wire connector listed at left, but used in outlet boxes or where a "tap off" of the main line is desired. May be used for connecting sizes 12 and 14 single conductor wire only, which are the most used sizes. Shipping weight, each, 2 ounces.

63 C 2692—Each .... $ .13
63 C 2693—10 for 1.15

Flexible Non-Metallic Conduit (Loom)



Finest quality. Very flexible, non-kinking. Moisture and fire resisting. Used for various insulating purposes. If rubber covered wires are run between partitions or crossed over each other, they are usually put inside either loom or conduit to afford proper fire protection. Shipping weight, per 100 feet, 6 to 28 pounds, according to size.

Article Number	Inside Diam.	Price 10 Ft.	Price 25 Ft.	Price 100 Ft.	Price 250Ft.
63 C 3379	7/32 in.	23¢	$ .53	$1.95	$4.75
63 C 3380	¼ in.	25¢	.58	2.15	5.20
63 C 3385	⅜ in.	49¢	1.13	4.15	9.95
63 C 3390	½ in.	66¢	1.50	5.55	13.50

Loom Fasteners

Holds loom to box securely and neatly. Eliminates possible friction and injury to insulation. Easy to install. Designed to hold ¼-inch loom in ⅝ inch hole. Required wherever loom is run into a metal box. Shipping weight, 10 ounces per dozen.

63 C 3626—Per dozen .... 23¢

Flexible Armored Cable (BX)

Consists of two or three solid copper wire conductors, insulated with rubber, and two coverings of cotton braid, over which is a covering of flexible steel. Shipping weight, per 100 feet, 44, 52 or 60 pounds.

Article Number	No. of Cond's	Gauge B and S	Price Per Foot	Price 100 Feet
63 C 3305	Two	14	7¢	$6.20
63 C 3310	Two	12	11¢	9.95
63 C 3315	Three	14	11¢	10.25

Box Connectors for Armored Cable

Connector for securing Armored Cable to cut-out box, outlet box or push switch wall box. Fit all three size cables listed. Require ½-inch knockout hole. Diameter, ⅞ inch. Shipping weights, 1 to 5 ounces.

Article Number	Style	Each
63 C 3630	Straight	6¢
63 C 3634	45 degree angle	16¢
63 C 3638	90 degree angle	21¢

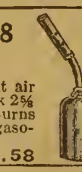
Gasoline Blow Torch

Tank of polished brass. Special bronze burner. Improved air pump. Produces solid blue flame generating about 1,500 degrees (Fahrenheit). Easily regulated. Handy for electricians and linemen, plumbers or tinners. Has removable solder iron holder.

63 C 5864—One-pint size. Shipping weight, 3 pounds. Each $3.25

63 C 5866—One-quart size. Shipping weight, 4 pounds $3.65

Baby Gasoline Torch $1.58

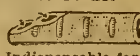


Lights with match. Burns without air pressure. Requires no pumping. Tank 2⅝ inches high; 1 13/16 inches diameter. Burns steadily for 1 hour on one filling of gasoline. Shipping weight, 5 ounces.

63 C 5860 .... $1.58

Acid Core Wire Solder

Prices on Solder Subject to Market Changes.



Requires no flux. Indispensable for soldering electrical connections and extensively used on telephone work.

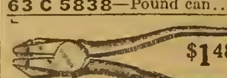
63 C 5830—Per pound .... 67¢
63 C 5832—Plain Wire Solder. Very handy for all electrical soldering. Per pound .... 29¢

Soldering Paste

A fine flux in a convenient form. A flux must be used with solder to make a strong and neatly soldered joint.

63 C 5836—Two-ounce can .... 9¢
63 C 5838—Pound can .... 35¢

Klein's Pattern Side Cutting Pliers $1.48



Back opening for cutting insulated wire. Drop forged steel. Shipping weight, 1 pound.

63 C 5818—Size, 8⅜ inches long $1.98
63 C 5819—Size, 6 inches long 1.48

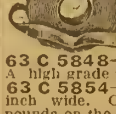
$1.25 Diagonal jaw Side Cutting Nipper of best hardened tool steel. Light weight to carry in pocket. Length 5 inches. Shipping weight 4 oz.

63C5808 .... $1.25

$1.23 High grade hardened Steel Plier. Sharp nose, 6 inches long. Long nose for use in out-of-the-way places. Shipping weight, 6 ounces.

63 C 5802 .... $1.23

Insulating Tape and Splicing Compound



For wrapping wires where insulation has been scraped off. In making joints on electric wires, they must first be soldered, then wrapped with rubber splicing compound over which friction tape must be wound.

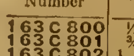
63 C 5848—Black Friction Tape. ¾ inch wide. A high grade tape. Half pound package .... 24¢
63 C 5854—Rubber Splicing Compound, ¾ inch wide. One of the best rubber splicing compounds on the market. Half-pound package .... 29¢

Rigid Iron Conduit

Standard black enameled Rigid Iron Conduit. Specially annealed to permit easy bending. Supplied in 10-foot lengths only. Threaded on both ends coupling on one end.

Article Number	Size	Weight Per 100 Feet	Price 10 Feet	Price 100 Feet
163 C 800	½ in.	80 lbs.	$ .70	$5.95
163 C 801	¾ in.	120 lbs.	.95	7.85
163 C 802	1 in.	175 lbs.	1.30	11.10

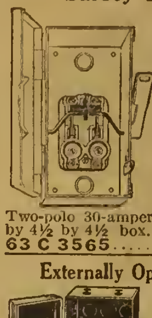
Conduit Entrance Fitting



Reversible Entrance Fittings for either vertical or horizontal pipe. Removal of hood permits straight pull on wires. Three-hole porcelain cover. May be used on either two or three-wire circuits. Shipping weights, 6 to 14 ounces.

Article Number	Size Conduit	Each
63 C 3890	½ inch	29¢
63 C 3893	¾ inch	38¢
63 C 3896	1 inch	47¢

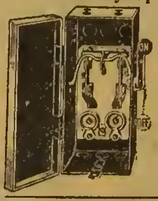
Safety Entrance Switch



Have you ever had to turn on the current in the dark? If you have, you know the discomfort of feeling inside the box for the switch handle. This switch has a lever on the outside of the box for turning the current on or off. May be locked with a padlock, making it impossible to open the box and touch any live parts. Box cannot be opened while switch is closed. Position of lever shows at a glance whether current is on or off. Two-pole 30-ampere 125-volt switch. 16 gauge, 9 by 4½ by 4½ box. Shipping weight, 6 pounds.

63 C 3565 .... $1.89

Externally Operated Entrance Switch



Similar to our No. 63 C-3565 except does not have safety latch. Two-pole 125-volt, 30-ampere porcelain base plug fuse entrance switch mounted in an 8¾ by 4½ by 3¾-inch steel box with lever on outside. Can be locked with padlock. ½ or ¾-inch knockouts. Holes for mounting. Box finished in black enamel. Shipping weight, 6 pounds.

63 C 3567 .... $1.40

Steel Cut-Out and Switch Box

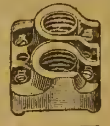
An approved box is required for every cut-out switch or fused branch block. These Boxes are National Electric Code Standard and meet all requirements. They are made of enameled sheet steel, with electro-welded seams. Covers fit tight and open all the way. Boxes are strong, well made and neat in appearance. Practically fire, water and dustproof. Have sufficient knock-outs for making all connections.

Article Number	Wdth In.	Lgth In.	Dpth In.	Shipping Weight	Each
63 C 3550	4½	9	3½	3 lbs.	$.42
63 C 3552	6	8	4	3¾ lbs.	.46
463 C 820	8	10	4	5¼ lbs.	.65
463 C 821	8	15	4	7½ lbs.	.86
463 C 822	10	12	4	10 lbs.	.85

Porcelain Entrance Switch

National Electric Code Standard porcelain base Entrance Switch or main line cut-out switch. Two-Pole Switch. Reversible handle. Base, size, 3¼ by 5¼ inches. Takes plug fuses. Capacity, 125 volts, 30 amperes. Shipping weight, 1½ lbs.

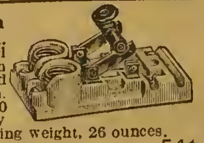
63 C 4305 .... 49¢



Main line double pole, porcelain base fuse block or cut-out for screw plug fuse. Capacity, 125 volts, 30 amperes. Can be used to fuse main line or branch lines. Size, 2½ by 3 by 1⅜ inches. Shipping weight, 8 ounces.

63 C 4340 .... 18¢

Panel Box Switch

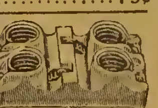


Panel Box Switch. For use in panel or steel switch box, where each circuit is to be controlled with a separate switch. Capacity, 125 volts, 30 amperes. Size base, 3 by 6 by 1⅞ inches. Shipping weight, 26 ounces.

63 C 4360 .... 54¢

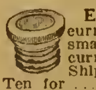
Two-wire single branch. Plug Cut-Out. Capacity, 125 volts, 30 amperes. Size, base, 3 by 3½ by 1⅝ inches. Shipping weight, 13 ounces.

63 C 4352 .... 19¢



Two-wire main, double branch, Plug Cut-Out. Capacity, 125 volts, 30 amperes. Size 3 by 5½ by 1⅝ inches. Shipping weight, 1¼ pounds.

63 C 4345 .... 37¢



Edison Base Plug Fuses. For use on currents up to 125 volts. Choose the smallest size which will pass enough current for line with maximum load on. Shipping weight, 1 ounce.

Ten for .... 39¢

63 C 4370— 3 amp. 63 C 4378—15 amp.
63 C 4372— 6 amp. 63 C 4380—20 amp.
63 C 4374—10 amp. 63 C 4382—25 amp.
63 C 4376—12 amp. 63 C 4384—30 amp.

Octagon Outlet Boxes

Of heavy stamped sheet metal with knockouts for ½-inch conduit or armored cable. Octagon shape makes them easy to install and permits of a better job. Have lugs and screws for covers.

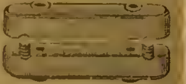
Article Number	Diam.	Depth	Ship. Wt.	Each	For Ten
63 C 3690	3¼	1⅝	6 oz.	10¢	$ .90
63 C 3695	4	1⅝	7 oz.	13¢	1.15

Porcelain Tubes

Unglazed Porcelain Tubes, 5/16 inside; 3/16 outside. Take either 14, 12 or 10 single braid rubber covered or weatherproof wire. Required wherever a wire is drawn through a partition or joist of any kind. Length given is from underhead to end. Shipping weight, per hundred, 7 to 15 pounds.

63 C 3902—Length, 3 in. Per doz. ..$ .12
463 C 902 —Length, 3 in. Per 100 ... .72
63 C 3904—Length, 4 in. Per doz. .. .14
463 C 904 —Length, 4 in. Per 100 .. .87
63 C 3906—Length, 6 in. Per doz. .. .21
463 C 906 —Length, 6 in. Per 100 ... 1.38
63 C 3908—Length, 8 in. Per doz. .. .37
463 C 908 —Length, 8 in. Per 100 ... 2.64

Glazed Porcelain Cleats



Take No. 14, 12 or 10 wires. Two wire have 2½-in. wire centers, three wire 1¼-in. wire centers. Shipping weight, per dozen, 3 pounds.

63 C 3920—2 wire. Per dozen ....$ .38
463 C 920 —2 wire. Per 100 .... 2.67
63 C 3922—3 wire. Per dozen ..... .38
463 C 922 —3 wire. Per 100 ...... 2.67

Unglazed Porcelain Cleats

63 C 3923—2 wire. Per dozen ..... .26
463 C 923 —2 wire. Per 100 .... 1.72

Assembled Split Knobs

The up-to-date Knob. Consists of a complete new code knob assembled with nail all ready to fasten in position. Just pick up knob, insert wire and drive into place. Save time, labor and money. Diameter, 1⅛ inches. Take No. 10, 12 or 14 wire. Shipping weight, per hundred, 10 pounds.

63 C 3939—Per dozen .... $ .33
463 C 939 —Per 100 .... 2.30

Snap (Turn Button) Switches

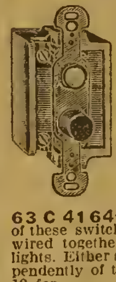
A high grade Switch. Approved National Electric Code Standard. The Three-way switches listed may be arranged to control the same light from two different places. Shipping weight, each, 4 ounces.

125-volt 5-ampere; or 250-volt 3-ampere
63 C 4102—Non-Indicating Single Pole ..19¢
63 C 4104—Indicating Single Pole ......24¢

125-volt 3-ampere; or 250-volt 1-ampere
63 C 4110—Three way. (Three point) ..47¢

125-volt 10-ampere; or 250-volt 5-ampere
63 C 4114—Non-Indicating Single Pole ..47¢
63 C 4116—Indicating Single Pole ......53¢
63 C 4118—Three way. (Three point) ..74¢

Push Button Flush Switches



Standard shallow type. Fit all standard wall boxes. Depth 1⅝ inches. Ship. wt., each, 6 ounces.

63 C 4160—For 125-volt 10-ampere current, 250-volt 5 ampere Single Pole.
Each .... $ .23
10 for 2.05

63 C 4162—Double Pole (Fits single gang box), breaks circuit in both wires. Each ...... $ .32
10 for 2.95

63 C 4164—Three way. (Double control.) Two of these switches installed at separate places are wired together to control the same light or set of lights. Either switch will turn light off or on independently of the other. Each .... $ .32
10 for 2.95

63 C 4166—Four point. One of these switches and two-three way switches permits control from three different points. Each $1.48

Face Plates for Push Button Flush Switches

Made of heavy solid brass. The equal in service to any plate, regardless of price. Fit all standard Push Button Flush Switches. Use two or three-gang plate only where two or three switches are to be installed side by side. Shipping weight, per gang, 2 ounces.

Article Number	Number Gangs	Finish	Price Each	Price Ten
63 C 4175	1	Brush Brass	9¢	$ .81
63 C 4177	2	Brush Brass	18¢	1.62
63 C 4179	3	Brush Brass	27¢	2.43
63 C 4181	1	Oxidized Copper	13¢	1.25
63 C 4183	2	Oxidized Copper	26¢	2.50
63 C 4185	3	Oxidized Copper	39¢	3.75
63 C 4187	1	Nickel Plated	13¢	1.25
63 C 4189	2	Nickel Plated	26¢	2.50
63 C 4191	3	Nickel Plated	39¢	3.75

Baseboard Receptacle

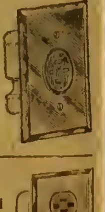
Adapted to take any standard Edison Base Screw Attachment Plug. Every room in the house should have at least one of these receptacles for connecting electrical appliances without interfering with lights. When not in use, lid is closed, making plate flush with wall or board. Price includes receptacle and plate. Shipping weight, each, 10 ounces.

Article Number	Finish of Plate	Price Each	Price Ten
63 C 4202	Brush Brass	29¢	$2.60
63 C 4204	Oxidized Copper	41¢	3.65
63 C 4206	Nickel	41¢	3.65

Single Edison Base Receptacle only, without face plate. Shipping weight, 8 ounces.

63 C 4201 .... 14¢

Standard Flush Receptacle with Plate



Takes any make of standard attachment plug caps. Devices may be quickly connected. Fits same metal wall boxes as flush switches. Complete with brass plate. Shipping weight, 12 ounces.

63 C 4221—Single recept. .. 44¢

Double Standard Flush Receptacle with Plate

Provides two outlets from one wall box. Two devices may be connected at the same time. Takes any make standard attachment plug caps. Fits same metal wall boxes as flush switches. Shipping weight, 12 ounces.

63 C 4225 .... 62¢

See our "Lineman's Special", strongly reinforced Horsehide Gauntlet. Page 228

Wiring Materials

Metal Wall Box for Loom or Knob and Tube Wiring

One-gang box is used where one switch or receptacle is installed. Two-gang box is used where two switches or receptacles are installed together, etc. Used with flexible non-metallic conduit "loom" and on knob and tube wiring systems. Depth, 2½ inches. Knockout holes, diameter ⅝ inch for ¼-inch loom. Takes any standard push switch or wall receptacle. Shipping weight, per gang, 11 ounces.

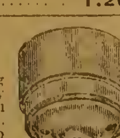
Art. No.	No. Gangs	Each	For 10
63 C 3670	1	13¢	$1.10
63 C 3672	2	26¢	2.20
63 C 3674	3	39¢	3.30

Wall Box for Conduit or Armored Cable

Takes any of the standard push switches and wall receptacles. Has knockout holes for ½-inch conduit and armored cable (BX). Any number of gangs required may be made. Length, 3 inches; width, 2 inches; depth, 2¾ inches. Shipping weight, each, 4 ounces.

63 C 3680—Each....................$ .14
For 10.................... 1.20

Two-Piece Porcelain Concealed Rosette



Used with concealed wiring for installing drop lights. Very easy to install. Fasten base in position and attach line wires. Attach cord to cap and turn cap onto base. Shipping weight, each, 8 ounces.

63 C 3960—Each....................$ .13
For 10.................... 1.10

Cleat Rosette

Used with open wiring. Shipping weight, each, 5 ounces.

63 C 3965—
Each..........$ .13
For 10.......... 1.10

National Electric Code Standard Sockets. Brass shell, fiber lined. Take any Edison base lamp. Meet all Underwriters' requirements. Key sockets, ⅛-inch cap. Have key to control current. Shipping weight, 3 ounces.

New Wrinkle Brand

63 C 4501—Brush Brass Finish.........24¢
63 C 4503—Polished Nickel Finish.........36¢
63 C 4505—Oxidized Copper Finish.....36¢

Independent Brand

63 C 4511—Brush Brass Finish.........22¢

Pull Chain Socket

Has ⅛-inch cap. 8-inch chains. Most convenient type where socket is out of reach. Shipping weight, 3 ounces.

New Wrinkle Brand

63 C 4535—Brush Brass Finish. Each.........43¢
63 C 4537—Oxidized Copper. Each.........57¢
63 C 4539—Polished Nickel. Each.........57¢

Pendant Cap Sockets

For use on drop cords only. Have key to turn current on and off. Composition bushing in cap. Shipping weight, each, 3 oz.

New Wrinkle Brand

63 C 4494—Brush Brass Finish.........24¢

Independent Brand

63 C 4495—Brush Brass Finish.22¢

Composition Bushing

Required in all sockets which are hung from drop cord. Fits any standard ⅛-inch cap socket. Shipping weight, per dozen, 1 ounce.

63 C 4560—Per dozen.........9¢
Per hundred.........48¢

Keyless Socket

One-eighth inch cap. Suitable for drop lights and on bowl fixtures where current is controlled by wall switch. Shipping weight, 3 ounces.

New Wrinkle Brand

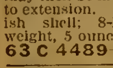
63 C 4520—Brush Brass Finish. Each.........22¢
63 C 4522—Polished Nickel Finish. Each.........34¢
63 C 4524—Oxidized Copper Finish. Each.........34¢

Pull Chain Extension 76¢

Screws into any regular socket and converts it into handy pull chain socket. Attaches to any fixture. Shade may then be moved down and fastened to extension. Brush (satin) brass finish shell; 8-inch chain. Shipping weight, 5 ounces.

63 C 4489—Each.........76¢

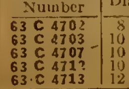
Uno Shade Holder



Screws to all sockets having Uno threads. Heavy brass. Shipping weight, each, 1 ounce.

Article Number	Size Holder	Finish	Price Each	For 10
63 C 4735	2¼ inches	Br. Brass	7¢	$ .63
63 C 4737	2¼ inches	Nickel	11¢	.99
63 C 4739	2¼ inches	Ox. Cop.	11¢	.99
63 C 4741	3¼ inches	Br. Brass	17¢	1.53

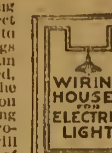
Metal Lamp Shades



Best quality, finely finished sheet steel Lamp Shades. White enameled inside. Green enameled outside. All have 2¼-inch fitters. Shipping weight, each, 4 to 8 ounces.

Article Number	Diam.	Style	Each	Per Dozen
63 C 4702	8 in.	Deep Cone	19¢	$2.10
63 C 4703	10 in.	Deep Cone	24¢	2.70
63 C 4707	10 in.	Shallow Cone	23¢	2.60
63 C 4712	10 in.	Flat	19¢	2.10
63 C 4713	12 in.	Flat	35¢	3.85

FREE ESTIMATING SERVICE



We offer our Estimating Service to help you select the necessary materials to wire your house or buildings for electricity. Send diagram of floors you want wired, indicating which way the joints run and where you want lights; whether building is already built or under process of construction. We will then send you correct list of materials required. If you want to do the work yourself, we will send you a book of instructions free with order. House may be wired properly by average man with the help we give. If you wish instruction book before placing your order, send for copy by article number below.

63 C 3000—Book on modern methods of wiring houses, with special reference to farm electric plant systems. Shipping weight, 5 ounces. Each.........................25¢

Wire Lamp Guards

Lamp Guard to cover 16 C. P. carbon or 15, 25 or 40-watt Tungsten lamps. Shipping weight, each, 2 ounces.

63 C 4721—
Each.......$ .17
Per dozen... 1.89

Open bottom guard permits changing lamp without removing guard. Ship. weight, each, 2 oz.

63 C 4725—
Each......$ .19
Per dozen.. 2.14

Dim-a-Lite

A pull of the cord produces five changes of light—full, dim, low, night light and out. A convenience which has become very popular. Screws into any standard lamp socket. No wiring. Brush (satin) brass finish. Can be used on any 40-watt or smaller lamp. Ship. wt., 8 oz.

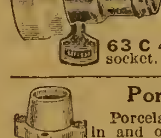
63 C 4990—For 110 volts. Each...............$1.18
63 C 4991—For 32 volts. Each...............$1.27
63 C 4992—For 110 volts, with shade holder attachment. Each............... 1.27

Luminous Socket Locator

A very handy device for locating sockets in the dark. Attach it to pull chain or key sockets. Glows in the dark and enables you to locate the fixture at once. Attach one to every fixture not controlled by a wall switch and you will find it very useful. Will retain their luminous properties for years. Shipping weight of 3, 5 ounces.

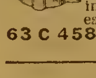
63 C 4788—For 3...........60¢

Wall Socket



63 C 4570—Brass shell, brush satin finish. Shipping weights, 3 to 5 ounces. With key socket.........28¢
63 C 4575—With keyless socket.........16¢
63 C 4571—With pull chain socket.........69¢

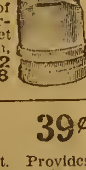
Porcelain Receptacle



Porcelain Receptacle. Used for work in and out of doors. Screw holes, 2 inches on center. Shipping weight, each, 4 ounces.

63 C 4580—Each.........9¢
For 10.........81¢

Porcelain Weatherproof Socket



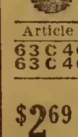
63 C 4582—Porcelain Weatherproof socket. For outside or basement wiring. Has 6-inch wire leads to connect to supply line. Shipping weight, each, 5 ounces. Each..............$ .12
For 10............ 1.08

Current Tap 39¢

Screws into regular socket. Provides for light at socket and tap for motor, electric iron or other electrical appliance without interfering with regular light or removing shade. Plug may be inserted instantly. Porcelain body and cap. Shipping weight, 6 ounces.

63 C 4480—Each...........39¢

Standard Attachment Plug



Separate black composition Edison Base Standard Attachment Plug. Cap is interchangeable with Trumbull, Bryant, General Electric, Benjamin, Hubbell and Cutler-Hammer standard receptacles and plugs. A neat and compact plug. Very strong and durable. Shipping weight, each, 3 ounces.

Article No.	Article	Each	For 10	For 100
63 C 4672	Plugs	16¢	$1.30	$12.00
63 C 4673	Extra Caps	11¢	.90	8.25

Adjustable Lamp

$2.69

Every home, office or shop can use one or more of these handy Lamps. Heavy cast metal base. Flexible arm adjustable to any position. Metal reflector shade. Key socket; 7-foot cord with plug for attaching to any convenient lamp socket. Height as illustrated, 12 inches. Felt pads on base. Shipping weight, 3 pounds. Bulb not included.

63 C 8619—Statuary Bronze Finish.....$2.69
63 C 8620—Verde Green Finish.....$2.69

Electric Bulbs

Standard 110-volt Tungsten Lamps

We handle only lamps of the very best quality. We guarantee them and replace any not satisfactory in every way. Tungsten lamps produce three times as much light as the old type carbon lamps on the same amount of current. For use on 108 to 115-volt city light current or 55-cell farm lighting plant. Shipping weights, per package of five, 3 to 5 pounds.

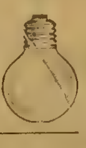
Clear Bulbs		Watts	Bowl Frosted Bulbs	
Article Number	For 5	Watts	Article Number	For 5
63 C 4803	$1.52	10	63 C 4839	$1.69
63 C 4805	1.52	15	....	....
63 C 4809	1.52	25	63 C 4842	1.69
63 C 4811	1.52	40	....	....
63 C 4812	1.52	50	63 C 4844	1.69
63 C 4813	1.69	60	....	....

Standard 220-Volt Tungsten Lamps

Clear bulbs for use on 210 to 230-volt current.

Article Number	Lamp Size	Candle-power	For 5
63 C 4920	25 watts	20	$1.78
63 C 4924	50 watts	45	1.78
63 C 4926	100 watts	97	4.80

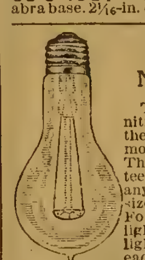
Round Frosted Tungsten Lamps



For 110 volts. Shipping weight, per package of five, 4 pounds.

63 C 4912—25 watts. 2 5/16-in. diam. Five for..................$2.35
63 C 4914—25 watts. 3⅓-in. diam. Five for..................$2.60
63 C 4916—40 watts. 3⅛-in. diam. Five for..................$2.60
63 C 4981—15 watts. With candelabra base. 2 1/16-in. diam. Five for $3.30

Standard 110-Volt Nitrogen Filled Lamp



These Lamps are filled with nitrogen gas, which greatly increases the brilliancy of light without using more current than Tungsten Lamps. The lamps we handle are guaranteed to have a burning life equal to any others on the market. All sizes fit regular Edison base sockets. For use on 108 to 115-volt city lighting current or 55-cell farm lighting plants. Shipping weights, each, 1 to 3 pounds.

Clear Bulbs		Watts	Frosted Bottom Bulbs	
Article Number	Price Each	Watts	Article Number	Price Each
63C4870	$ .49	50	63C4876	$ .54
63C4872	.54	75	63C4878	.58
63C4874	.77	100	63C4880	.85
63C4817	1.55	200	63C4882	1.60

Type C-2 Blue Nitrogen Bulbs

Use for color matching and to produce daylight effect lighting. For 110-volt current. Edison Base.

Article Number	Watts	Length in.	Diam. in.	Price Each
63 C 4893	75	5¾	2⅝	$ .62
63 C 4894	100	7⅛	3⅛	.90
63 C 4895	150	7¾	3½	1.30
63 C 4899	200	8½	3¾	1.75

Mill Type Tungsten Lamp

A new type of Lamp recently put on the market, which has the filament so constructed that it will stand vibration better than the ordinary lamp. Especially suitable for use in factories, mills and other places where there is considerable vibration due to the operation of machinery or other causes. Can be supplied with clear bulbs only in 25 and 50-watt sizes, for use on 110-volt current. Shipping weight of five, 3 pounds.

63 C 4819—25-Watt. For 5..................$1.69
63 C 4820—50-Watt. For 5.................. 1.69

Lamps for 30-32 Volt Farm Plant Current

These Lamps are for electric lighting plant current of 30-32 volts (15-16 cell storage battery plants). All fit regular Edison base sockets. Shipping weight, per package of five, 3 to 5 pounds, according to size.

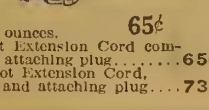
Article Number	Watts	Price For 5
With Clear Bulbs		
63 C 4928	5	$1.52
63 C 4930	10	1.52
63 C 4932	15	1.52
63 C 4934	20	1.52
63 C 4936	25	1.52
63 C 4940	50	1.52
With Frosted Bulbs		
63 C 4943	5	$1.69
63 C 4945	10	1.69
63 C 4947	15	1.69
63 C 4951	20	1.69
63 C 4953	25	1.69
63 C 4957	50	1.69

30-32 Volt Nitrogen Lamps

Highly efficient nitrogen gas-filled lamps with clear glass bulbs. Produce a brilliant white light. Shipping weights, 1 to 3 pounds.

Article Number	Watts	Each
63 C 4900	25	54¢
63 C 4901	50	54¢
63 C 4903	75	63¢
63 C 4905	100	92¢

Extension Cord



Made of No. 18 Twisted Pair Cotton Lamp Cord. Has regular Edison base, key socket wired on one end and separable black composition attachment plug on the other. Shipping weight, about 10 ounces. 65¢

63 C 4686—6-Foot Extension Cord complete, with socket and attaching plug........65¢
63 C 4688—10-Foot Extension Cord, complete with socket and attaching plug....73¢

Adjustable Reading Lamp

$4.95

Adjustable Reading or Sewing Lamp. Stands on floor. Handy and attractive. May be moved anywhere and set alongside of chair or bed. Heavy cast base. Adjustable arm and shade. Arm is flexible. Requires no unscrewing to change position. Puts the light where you want it. Key socket. Finished in Leyden bronze (a smooth dark green). Nine-foot cord. No bulbs included. Shipping weight, 30 pounds.

63 C 8613........ $4.95

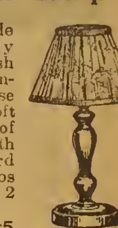
Electric Boudoir Lamp

A very attractive Boudoir Lamp at a very low price. Neat and simple in design. Metal parts in old ivory finish, a pleasing contrast with the rose colored, silk-lined shade.

A pair of these lamps makes an acceptable gift for any occasion. A lamp of this type greatly improves the appearance of the boudoir. This is a durable lamp, nothing to break. Height, 12 inches. Wired with push button socket and six feet of cord. No bulbs included. Shipping weight, 4 pounds.

63 C 8696 .....$2.95

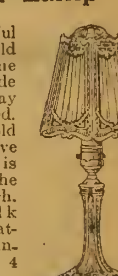
Electric Boudoir Lamp



The sheer, figured silk shade blends harmoniously with the dark mahogany finish of scrolled and carefully finished base. A lining of rose silk adds a warmth to the soft light of the Lamp. Height of lamp, 12 inches. Wired with key socket, six-foot silk cord and attaching plug. No bulbs included. Shipping weight, 2 pounds.

63 C 8680....... $3.25

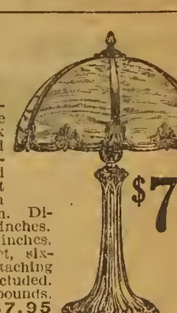
Electric Boudoir Lamp



An exceptionally beautiful Boudoir Lamp in a genuine old ivory finish. Removable frame covered with silk fitted inside the metal shade. The silk may be changed easily if desired. Soft blue silk shade with old rose lining, especially effective when lighted. The shade is 6½ inches in diameter. The lamp stands 13 inches high. Complete with six-foot silk cord, push key socket and attaching plug. No bulbs included. Shipping weight, 4 pounds.

63 C 8697........$4.75

Electric Table Lamp



$7.95

A simple and beautiful portable Table Lamp. Shade of six amber-ivory blended art glass panels, overlaid with metal scroll in leaf design. Neat cast metal base in bronze and gold finish. Diameter of shade, 14 inches. Height of lamp, 21 inches. One pull chain socket, six-foot silk cord and attaching plug. No bulbs included. Shipping weight, 40 pounds.

63 C 8698.......$7.95

Electric Table Lamp

$10.75

An especially attractive two-light Portable Lamp, Flemish antique finish. Twelve-panel, six-sided shade with amber, ivory and green art glass, overlaid with metal. The metal overlay is embossed in a graceful and interesting scenic design. Shade, 16 inches in diameter. Lamp, 23 inches high. Two pull chain sockets, six feet of silk cord and attaching plug. No bulbs included. Shipping weight, 45 pounds.

63 C 8699.....$10.75

Royal Bronze Table Lamp

Special Value

Metal Table Lamp of exceptionally pleasing design. Eight-panel blended amber-ivory art glass shade, overlaid with metal in leaf and flower design. Grecian vase-shaped base. Metal parts finished in Royal bronze—a mottled brown—with touches of green on the leaves. This is a well proportioned lamp, of excellent quality. The price at which we offer it is exceptionally low. Height of lamp, 23 inches. Diameter of shade, 17½ inches. Two pull chain sockets, six feet of silk cord and attaching plug. No bulbs included. Shipping weight, 45 pounds.

$13.80

63 C 8652.....$13.80

Rich, durable Reed Furniture is shown on Pages 442 and 443

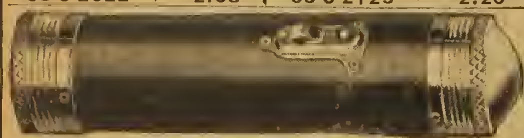
Tungsten Flashlights

A New and Very Powerful Searchlight

Extra large, highly polished metal reflector, 3⅜ inches in diameter. Fitted with powerful beveled lens. Brilliant rays of light thrown a great distance; will penetrate fog or smoke. Especially useful to firemen, policemen, automobilists, motor boat owners, trainmen and others who require a portable light of great power.

New style octagonal headlight will stay where you lay it. Switch for flash or continuous light. Safety cutoff—give rear cap a half turn and switch does not work. Shock absorber protects bulb from ordinary jolts. Two styles—black fiber case with nickel trim or polished nickeled brass. Complete with battery and lamp.

Fiber Case		Nickel Plated Case		No. of Cells	Size Inches	Ship. Weight
Article Number	Each	Article Number	Each			
63 C 2021	$1.69	63 C 2121	$1.95	2	1½ by 6¾	25 oz.
63 C 2022	2.08	63 C 2123	2.20	3	1½ by 9	30 oz.



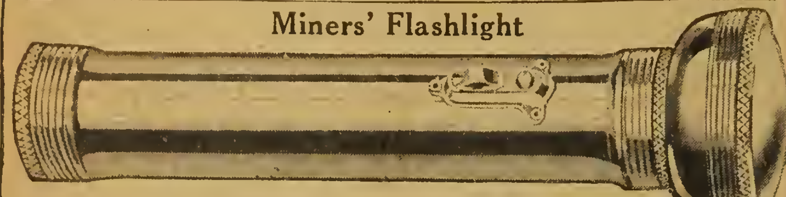
Tubular Flashlight

A handy, economical Flashlight for all around use. Powerful bullseye lens concentrates light where wanted. Throws a steady shaft of penetrating light. Convenient size, light to carry in your pocket.

Equipped with shock absorber to protect bulb, also safety cutoff which saves battery. Switch for flash or continuous light. Cannot shortcircuit. Two kinds of cases: black fiber with nickel trimmings, or highly polished nickel plated brass. Complete with battery and lamp.

Fiber Case		Nickel Plated Case		No. of Cells	Size Inches	Ship. Weight
Article Number	Each	Article Number	Each			
63 C 2006	$ .79	63 C 2129	$ .97	2	1¼ by 5½	16 oz.
63 C 2003	1.05	63 C 2049	1.20	2	1½ by 6¾	18 oz.
63 C 2010	1.20	63 C 2052	1.48	3	1½ by 9	27 oz.

Miners' Flashlight

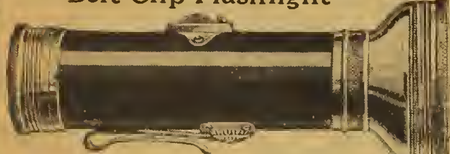


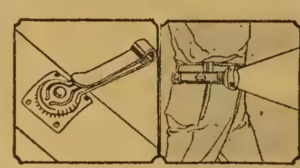
Fitted with a powerful reflector and throws a bright, broad light a long distance. Has switch for flash or continuous light. Spring shock absorber protects the bulb from being broken by ordinary jolts.

Safety cutoff keeps light from being worn out by leaving switch on. Two styles of cases: Nickeled brass (as illustrated) or black fiber. Complete with battery and lamp.

Fiber Case		Nickel Plated Case		Size Inches	No. of Cells	Ship. Wt.
Article Number	Each	Article Number	Each			
63 C 2013	$ .99	63 C 2108	$1.18	1¼ by 5½	2	18 oz.
63 C 2016	1.22	63 C 2055	1.50	1½ by 6¾	2	22 oz.
63 C 2020	1.38	63 C 2057	1.78	1½ by 9	3	27 oz.

Belt Clip Flashlight

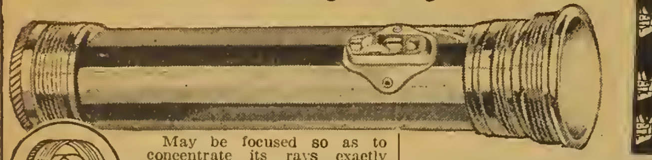


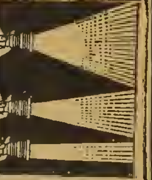


Equipped with adjustable swivel clip for fastening to pocket, belt or buttonhole. Adjusts to direct light anywhere, regardless of user's position. Leaves both hands free. Particularly adapted for emergency night repairs on machines or doing chores after dark. Hard black composition fiber case equipped with mirrored reflector of high power, 2½ inches in diameter. Bullseye lens and switch for flash or steady light. Length, 6¾ inches. Diameter, 1½ inches. Takes 63 C 2204 battery, 63 C 2306 bulb. Shipping weight, 22 ounces. Complete with two-cell battery and Mazda tungsten bulb.

63 C 2030 ....$1.59

Focusing Flashlight





May be focused so as to concentrate its rays exactly where wanted. Will throw a bright, clear beam of light 300 feet. This is by far the most powerful and most efficient Flashlight on the market today.

Every one of these lights is equipped with an extra bulb which is carried inside the back end cap, as shown in the small illustration at the left. This feature will be especially appreciated by campers or others who have burned out flashlight bulbs and been unable to replace them immediately. Switch for flash or continuous light. Strong mirrored reflector with heavy glass lens which is not easily broken. Two styles of cases: Brass, polished nickel plated, or plain black fiber with nickeled trimming.

63 C 2038—Fiber case. Shipping weight, ounces $2.55

63 C 2039—Nickeled case. Shipping weight, 27 ounces........................$2.90

Double-Cell Hand Lantern

$1.80 Designed and built for hard usage on farms, boats, in oil houses, garages, powder mills, on vehicles of all kinds and as a guide light at camp. Wind, rain, sleet and snow will not harm it. Case is of heavy drawn Japanned steel. Size, 7½ by 5½ by 2¾ inches. Flanged base prevents upsetting. Triple silver plated reflector, 3¼ inches in diameter Switch to turn light on and off. No parts to rust.

63 C 2026—With 3-volt bulb for use with two regular No. 6 dry cells. Shipping weight, 1½ pounds. Without batteries. Each........ $1.80

63 C 2028—With 6-volt bulb and with two long-life 3-volt batteries. Gives a very brilliant light and has wonderful lasting power. Shipping weight, 8 pounds. Each $3.15

Our Flashlights are priced to save you money

Electric Spotlight Lantern

Throws brilliant shaft of light. Just the thing for farmers, automobilists, watchmen and campers. Metal case. Easy grip handle and bail. Finished in black enamel. Will not rust. Size, about 3 by 7½ inches.

63 C 2034—Lantern fitted with 1½-volt bulb for use with any standard No. 6 battery. Shipping weight, 12 ounces without battery........$1.15

63 C 2036—Lantern fitted with 3-volt bulb and 3-volt battery. Shipping weight, 5 pounds, including battery........................$1.82

3-Volt Lighting Battery

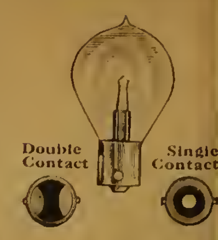
For lighting devices having small lamp lighted by battery current. Same size as regular battery, 2½ by 6 inches. Will replace two regular dry cells on any lighting system. Not for ignition work.

63 C 2529—Each ....68¢

See Page 545 for Regular No. 6 Dry Cell Battery

Save Money on Electric Light "Bulbs"
Our Lamp Prices Are Much Lower Than Usually Asked

These Automobile Lamps are the very best quality. In addition to being used for automobile lighting, may be used in connection with storage battery lighting for many other purposes, such as motorboat and tractor lighting. Shipping weight, 1 pound per package of five.



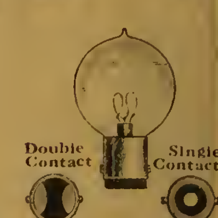
Nitrogen Type C Lamps For Headlights and Spotlights

These bulbs give a brighter, whiter light on less current than the vacuum type.

Article No. Double Contact Base	Article No. Single Contact Base	Voltage	Amps.	Approx. Candle-power	Approx. Diam., Inches	For Five
63 C 2830	63 C 2864	6–8	2½	21	1½	$1.50
63 C 2834	63 C 2868	6–8	4	32	1½	2.20
*63 C 2831	Not made	9	2	27	1½	1.50
63 C 2832	63 C 2869	12–16	1½	21	1½	1.60
63 C 2837	63 C 2873	18–24	1	27	1½	2.35

*Regular Ford size wired two in series.

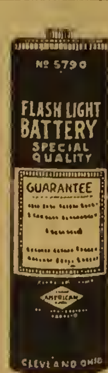
Tungsten Sidelight and Taillight Lamps



Art. No. Double Contact Base	Article No. Single Contact Base	Voltage	Approx. Candle-power	Approx. Diam. Inches	For Five
63 C 2880	63 C 2910	3–4	2	¾	$ .84
63 C 2884	63 C 2914	6–8	2	¾	.84
63 C 2886	63 C 2916	6–8	4	1	.96
63 C 2902	63 C 2932	12–16	2	¾	.90
63 C 2904	63 C 2934	12–16	4	1	1.05
*63 C 2907	63 C 2935	18–24	2	¾	1.20

*Can be used on rear lamp of Ford, wired direct to magneto.

Tubular Batteries

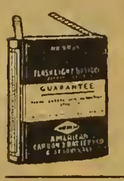


63 C 2201 — Two-cell battery. No. 5791. Height, 2¾ inches. Diameter, 1 inch. Fits 1¼ by 5½-inch tubular lights. This is the same size as Eveready 791, Franco 1029, French 121. Shipping weight of three, 15 ounces.
Three for ....58¢

63 C 2204 — Two-cell battery. No. 5790. Height, 4¾ inches. Diameter, 1⅜ inches. Fits 1½ by 6¾-inch tubular lights. This is the same size as Eveready 790, Franco 1028, French 221. Shipping weight of three, 27 ounces.
Three for ....65¢

63 C 2210 — Three-cell battery. No. 5705. Height, 7 inches. Diameter, 1⅜ inches. Fits 1½ by 9-inch tubular lights. This is same size as Eveready 705, Franco 1027, French 231. Shipping weight of three, 45 oz.
Three for................95¢

Flat Style Batteries



Shipping weights, 4 to 6 oz. for 3.

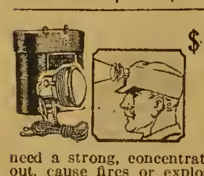
Article Number	No. Cells	Battery Size	Three for
63 C 2232	2	2¼x1$^{1}/_{16}$x⅝	60¢
63 C 2234	2	1¼x2 x$^{11}/_{16}$	81¢
63 C 2236	3	2⅝x2⅜x⅞	81¢

Tungsten Flashlight Lamps

Shipping weight, each, 2 ounces.
Three for........................44¢

Article Number	Voltage	Diam Inch	Fits
63 C 2301	1.25	¾	Single Cell Lantern.
63 C 2303	2.3	7/16	2 Cell, 1¼ by 5½ inch. Tubular light.
63 C 2306	2.5	9/16	2 Cell, 1½ by 6¾ inch. Tubular Light.
63 C 2307	2.4	¾	3-Volt Hand Lanterns.
63 C 2311	3.8	9/16	3-Cell, 1½ by 9 inch Tubular light.
63 C 2313	6.2	11/16	5-Cell, 1½ by 13½ inch. Tubular light, 6-volt Hand Lantern.

Electric Caplight



$1.95 Meets the requirements of miners, engineers, inspectors, hunters and others who need a strong, concentrated light. Does not blow out, cause fires or explosions. Fastens firmly to the cap or clothing by means of two-prong attachment bracket, leaving both hands free. Powerful nickel plated reflector and 1¾-inch bullseye lens. Includes long-life coat pocket battery and 3-foot connecting cord. Uses bulb, 63 C 2311. Shipping weight, 3 pounds.

63 C 2081—Each.................. $1.95
63 C 2240—Extra battery........... .45

Eveready Ignition Magneto

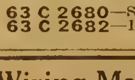
After engine is started, magneto will supply ample current to ignite any engine, even the largest. Must be run at speed of about 2500 revolutions per minute. Automatic governor prevents magneto from running faster than necessary. Shipping weight 12 pounds.

Eveready Make and Break Magnetos

63 C 375—With 2½-inch friction drive pulley without spark coil. Each $9.25
63 C 377—2½-inch friction drive pulley, make and break coil mounted in arch.........$9.95
63 C 380—With 2½-inch belt drive pulley for ⅜ inch round belt, without spark coil... $9.95
63 C 382—2½-inch belt drive pulley, make and break coil mounted in arch............$10.65

Eveready Jump Spark Magnetos

63 C 385—With 2½-inch friction drive pulley without spark coil. Each..............$9.65
63 C 387—With 2½-inch belt drive pulley for ⅜ inch round belt. No spark coil........$10.35



Switches. For use on low voltage circuits. Unbreakable metal base. Brass contacts and switch blade insulated handle. Shipping weight, 2 ounces.

63 C 2680—Single throw..............20¢
63 C 2682—Double throw..............27¢

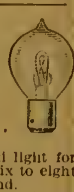
Lamps for Ford Magneto Lighting

Nine volt, 2 ampere, 18 candlepower, double contact base Tungsten Headlight Lamp for Fords. Used on magneto lighting systems. Shipping weight, 5 lamps, 1 pound.

63 C 2824—Per package of five lamps........ 95¢

For complete line of Automobile Lamps, see Pages 576 and 583.

Special Double Filament Lamp for Ford Headlights



High grade, double filament Type C nitrogen filled Lamp. Same type now furnished as standard equipment on Ford cars. Latest development in Ford headlight bulbs. Four candlepower filament furnishes correct light for city driving; twenty-one candlepower filament provides powerful light for country roads. Double contact base. Six to eight volts. Shipping weight, 5 lamps, 1 pound.

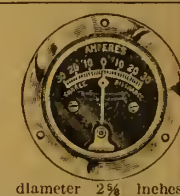
63 C 2850—Five Lamps........ $1.80

Dash Ammeter

A high grade Ammeter. Used as standard equipment on many makes of cars. Equal in quality to any meter on the market. Black enamel face. Polished nickel flange, 2⅝ inches diameter, for flush mounting. Diameter of body, 2 inches. Indicates charge and discharge up to 30 amperes. Shipping weight, 8 ounces.

63 C 2565—Each....................$1.12

Roller Smith Universal Ammeters



Standard size, small, direct current Ammeter. Can be used on all makes of automobiles, regardless of type and voltage of system. Guaranteed against burnouts. Used as standard equipment on many popular cars. Flush mounting flange: diameter 2⅝ inches. Diameter of body, 2 inches. Indicates charge and discharge up to 30 amperes.

Shipping weight, 8 ounces.

63 C 2557—Black enamel flange. Each $2.75

63 C 2558—With Polished nickel flange. Each........................ 2.75

Special Ammeter for Ford Cars

Direct current Ammeter, made especially for use on Ford cars. Same type as meter now being supplied as standard equipment. Flush mounting flange: diameter, 3 inches. Registers charge and discharge up to 20 amperes. Diameter of body, 2¼ inches. Face and dial, black enamel finish. Shipping weight, 1 pound

63 C 2567—Each....................$1.20

Switchboard Meters
For Direct Current Only

Switchboard Meters for use on small switchboards, or farm lighting plants. Are durable and accurate. Large, easily read figures. Nickel plated cases. Diameter, 2½ inches. Brass posts ¾ inch long project from back so that meter may be fastened on a slate board. Shipping weight, 5 ounces.

63 C 2554—Ammeter scaled 0 in center. Shows charge or discharge up to 20 amperes. Each........................$1.65

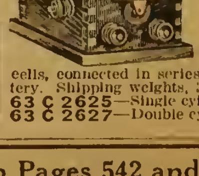
63 C 2556—Voltmeter scaled 0 to 12 volts. Each........................$1.65

Make and Break Coils

Make and Break Coils—Steel case coil for use on engine with make and break ignition. Not affected by water or weather. Low current consumption. Size, 2⅛ by 2⅛ by 6½ inches. Shipping weight, 2½ pounds.

63 C 2635—Without switch. Each....................79¢
63 C 2637—With switch, as illustrated. Each..............85¢
63 C 2636—Coil without switch, to operate direct from 32-volt farm lighting plant current. Each..$1.10

Jump Spark Coils



Economical in battery consumption and positive in action. Genuine Tungsten rivets used for contact points. Nicely finished oak case, small enough to fit any ordinary battery box. Operates on 4 or 5 cells, connected in series or on 6-volt storage battery. Shipping weights, 3½ and 6½ pounds.

63 C 2625—Single cylinder coil...... $2.69
63 C 2627—Double cylinder coil...... 5.38

Approved Electrical Wiring Materials are shown on Pages 542 and 543

American Ignitor Dry Cell

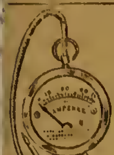
Designed especially for ignition work on gas engines, automobiles, motorboats, etc. Size, 2½ by 6 inches. Average initial amperage, 25 to 30. Shipping weight, each, 2 pounds.

63 C 2501—Each... $ .37
63 C 2502—Per dozen. 4.20

American Regulator Battery
For telephones, door bells, and all light service. Size, 2½ by 6 inches. Average initial amperage, 18 to 22 amperes. Shipping weight, each, 2 pounds.

63 C 2504—Each... $ .36
63 C 2505—Per dozen. 4.08

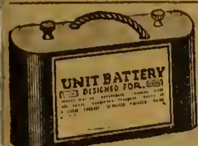
Battery Meters



Indicate condition of dry cells or storage battery. Metal dial, brass case, nickel plated and polished. Diameter, 2 inches. Detachable flexible cord, to connect to battery. Shipping weight, 4 ounces.

63 C 2541—Ammeter for testing dry cell batteries. Reads 0 to 35 amperes............ 69¢
63 C 2542—Voltmeter for testing storage batteries. Reads 0 to 10 volts................ 78¢
63 C 2543—Combination voltmeter and ammeter for testing both dry cell batteries and storage batteries. Reads 0 to 35 amperes, 0–11 volts. Each............................ 93¢

Unit Battery



Provides ignition current for stationary gas engines and tractors, current for bells and buzzers, lighting for closets and camps. Made of four regular 2½ by 6 inch ignitor cells connected in series and enclosed in hermetically sealed fiberoid case. Will outlast two sets of ordinary dry cells. Test 6 volts, 22 to 30 amperes. Size, 10½ by 2¾ by 7 inches. Shipping weight, 10 pounds.

563 C 418—Per set................ $1.95

Multiple Battery
Same as Unit Battery but enclosed in enameled metal case. Especially adapted for motorboat ignition or where exposed to moisture, weather, heat or rough handling.

563 C 414—Set of 5 cells in series. Test 7½ volts, 22 to 30 amperes. Container size, 13 by 2¾ by 7 inches. Shipping weight, 12 pounds... $3.45
563 C 412—Set of 8 cells, 4 in series, two multiples. Tests 6 volts, 45 to 60 amperes. Container size, 10½ by 5½ by 7 inches. Shipping weight, 20 pounds. Per set.............. $4.95

Professional Telegraph Set

Regulation instrument used by professional operators. Sounder and key mounted on polished wood base. Frame of sounder polished brass with aluminum lever and hard rubber-covered magnets. Key, polished brass frame with steel lever, hard rubber knob and circuit breaker. Shipping weight, 3 pounds.

63 C 1730—4-ohm combination set.... $3.78
63 C 1732—20-ohm combination set... 3.98

Amateur Telegraph Set

$2.65

Full size key and sounder, mounted on a polished oak base. A good instrument for beginners. Prices include up-to-date Operator's Manual containing Morse code; instructions for telegraphing, and other information. Shipping weight, 2⅝ pounds.

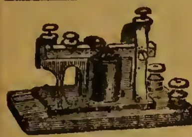
63 C 1715—With 4-ohm sounder..... $2.65
63 C 1719—With 20-ohm sounder.... 2.98

Pony Relay

A Relay working in conjunction with each instrument will improve the efficiency of any telegraph system, when several instruments are connected on the same line. Also used on burglar alarm systems. Finely finished. Made of high grade materials. Resistance, 20-ohms. Shipping weight, 2¼ pounds.

63 C 1745.................... $3.35

Sounders



Same as used on our professional combination set. Shipping weight, 24 ounces.

63 C 1735—4-ohm sounder. $2.30
63 C 1737—20-ohm sounder 2.50

Lever Keys

Steel Lever Keys. Same quality as used on our professional combination sets. Shipping weight, 14 ounces.

63 C 1739—With legs to go through table............ $1.85
63 C 1741—Legless key to screw to top of table or desk 1.95

Special Type Transformer

Operates only when connected to alternating current line of 100 to 130 volts, 60 to 133 cycles. Special Transformer 60-watt capacity. Produces from 2½ to 27½ volts in 2½-volt steps. An efficient, small, neat and compact device that will operate trains and motors, bells, buzzers and low voltage lamps. Equal in quality and efficiency to any transformer made. Fitted with 7-foot cord and attaching plug. Shipping weight, 4½ pounds.

63 C 1695.................... $2.58

Private Line Telephone

These Telephones will withstand much usage and maintain steady, dependable service for many years. They are ideal for connecting various rooms in the home, from house to barn, or several buildings on the farm or nearby farms. A press of the button calls the party wanted. Complete instructions included, so system is easily installed.

Set consists of two complete telephones for points within 500 feet. Made entirely of metal, black enameled. Operate on 4 ordinary dry batteries. Makes an ideal home telephone. Carries the voice clearly and costs very little to operate. No batteries or wire included. Only two of these telephones used on a line. Shipping weight, per pair, 6 pounds.

63 C 1165—Per pair (2 telephones) ... $5.75

Insulated Bell Wire

63 C 5960—Single conductor. Size 18. About 150 feet to the pound. Per pound.................. 45¢
63 C 5962—Double conductor. Size 18. Two insulated wires, twisted. About 65 feet to the pound. Per pound..... 48¢

Electric Bells

Nickel plated clear ringing gong. Operates on single ordinary dry cell or from bell ringing transformer. Very sensitive. Built to last for years. Coils carefully protected. Japanned iron box. Shipping weight, 9 ounces.

63 C 5945—2½-inch gong..... 50¢
63 C 5947—3-inch gong....... 54¢

Electric Bell Transformer

Attach Transformer to regular lighting wires. Makes current suitable for door bells, buzzers, annunciators or door openers. Registers on meter only when current is used. Produces three voltages, 6, 8, and 14. Operates on alternating current of 100 to 120 volts, 60 cycles. Lasts a lifetime. Working capacity, 24 watts. Shipping weight, 2 pounds.

63 C 5921—Transformer only, without bell. $1.05

Electric Signal Buzzer

Makes a low buzzing sound where loud ringing of a bell is not desirable. Working parts carefully protected against injury. Operates on any ordinary dry cell. Shipping weight, 6 ounces.

63 C 5952................. 48¢

Push Button

Nicely finished wood push button composition center. Positive spring contact. Ship. wt., each, 1 ounce.

63 C 5935—Each........ 7¢
63 C 5936—Per dozen... 70¢

Insulated Staples

For fastening wires to wall. Insulated saddle eliminates danger of short circuiting. Height, ⅝-inch. Shipping weight, per hundred, 3 ounces.

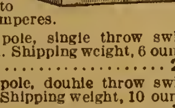
63 C 5932—Per 100........... 20¢

Magnet Wire

One piece only on a spool. Wire is standard B and S gauge.

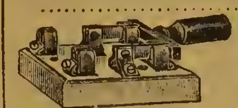
Double Cotton Covered 63 C 1350		Gauge	Enameled 63 C 1400	
8-Ounce Spool	1-Pound Spool		8-Ounce Spool	1-Pound Spool
$ .45	$ .72	14	39¢	$ .65
.47	.78	16	41¢	.69
.51	.89	18	43¢	.72
.55	1.05	20	45¢	.77
.68	1.30	22	47¢	.82
.77	1.45	24	49¢	.90
.90	1.70	26	58¢	.92
1.05	1.99	28	62¢	1.15
1.60	2.60	30	65¢	1.20
1.95	3.40	32	70¢	1.25
2.80	4.95	36	98¢	1.80

Knife Switchea



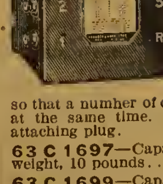
Porcelain base Switches. Contacts and blades made of heavy copper. Intended for low voltage currents, but may be used on 125-volt current to carry load not over 15 amperes.

63 C 2684—Single pole, single throw switch. Base, size, 1⅛ by 3⅛ in. Shipping weight, 6 ounces. .... 22¢
63 C 2686—Single pole, double throw switch. Base size, 1⅜ by 3⅞ in. Shipping weight, 10 ounces. .... 30¢
63 C 2687—Double pole. Single throw switch. Base, size 2 by 2⅝ in. Shipping weight, 10 ounces. .... 39¢



63 C 2689—Double pole. Double throw switch. Base size, 2⅝ by 4 inches. Shipping wt., 1 pound Each.......... 48¢

Standard Type Transformer



Operates only on alternating current of 100 to 125 volts, 60 to 133 cycles. 100-watt Transformer, produces 1½ to 24 volts, 150 watt, 1½ to 30 volts in steps of 1½ volts each, and in addition can produce constant voltages, so that a number of different voltages can be drawn at the same time. Fitted with 7-foot cord and attaching plug.

63 C 1697—Capacity, 100 watts. Shipping weight, 10 pounds.................. $4.70
63 C 1699—Capacity, 150 watts. Shipping weight, 13 pounds.................. $5.95

Bridging Type Standard Telephones

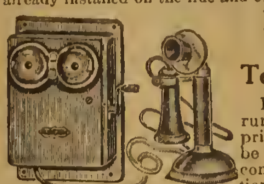
Bridging Telephones are recommended for any kind of telephone service (private exchange or party line) and are specially designed for use on either long distance or short party lines. Outside of cities and large towns telephone service is usually secured by bridging telephone party lines.

Important Points to Remember

If a line is already in operation in your neighborhood, and you wish to connect with it, no matter if the instruments already in use are not of our make, you may use our telephones.

When constructing a bridging party line or when installing an instrument on a line already in operation: All of the telephones on any one line must have Ringer Movements wound to the same resistance. Our Bridging Telephones are made with ringer movements of either 1000, 1600, 2000 or 2500 ohms resistance. Therefore before ordering your telephone, find out the resistance of those already installed on the line and order your telephone with ringer movement of the same resistance.

Modern Desk Telephone



For use on any rural bridging or private line. May be placed in any convenient position. Used while seated or standing. Generator and ringer mounted in fine oak cabinet. Improved transmitter stand, black enamel finished.

This is the newest type of telephone. You can sit at your table and telephone in comfort. It is especially suitable for use on the desk as it permits greatest ease in writing while speaking. Handsome in appearance and very compact. Stands and stools for use with this type of telephone are shown in our furniture section. See Index. Shipping weights, 32 to 36 pounds.

Prices include two dry batteries

Article Number	Each	Size Generator	Ringer Movement
263 C 1020	$15.95	5-bar	1000 ohm
263 C 1022	16.05	5-bar	1600 ohm
263 C 1024	16.10	5-bar	2000 ohm
263 C 1026	16.15	5-bar	2500 ohm
263 C 1028	16.10	6-bar	1000 ohm
363 C 1030	16.20	6-bar	1600 ohm
263 C 1032	16.25	6-bar	2500 ohm
263 C 1034	16.30	6-bar	3000 ohm

Convenient Wall Telephone

For use on any bridging or private line of any length. Oak cabinet, finely varnished and polished. Easily installed, with the complete directions included free. Equipped with solid back transmitter, bi-polar receiver, lightning arrester, adjustable ringer movement with 2½-inch gongs, powerful generator with laminated magnets, each bar consisting of three distinct magnets tempered and magnetized separately. Every 5-bar generator has 15 magnets and every 6-bar generator has 18 magnets. Length 20 inches, width, 9 inches. Shipping weights, 32 to 38 pounds.

Prices include two dry batteries

Article Number	Each	Six For	Size Gener.	Ringer Movement
263 C 1001	$14.75	$87.50	5-bar	1000 ohm
263 C 1003	14.85	88.10	5-bar	1600 ohm
263 C 1005	14.90	88.40	5-bar	2000 ohm
263 C 1007	14.95	88.70	5-bar	2500 ohm
263 C 1009	14.90	88.40	6-bar	1000 ohm
263 C 1011	15.00	89.00	6-bar	1600 ohm
263 C 1013	15.05	89.30	6-bar	2000 ohm
263 C 1015	15.10	89.60	6-bar	2500 ohm

Shipped Promptly from Factory in Northern Indiana

Details of Construction

The Generator is constructed on strictly scientific lines and retains its power permanently without deterioration. Each bar of the generator is made up of three distinct magnets so that every 5-bar generator has 15 magnets and every 6-bar generator, 18 magnets. This method is superior to the solid bar constructions, as the generator is enabled to supply more power and retain its efficiency longer. The entire generator is self-contained and mounted in the box in such a manner that it may be removed instantly.

The 5-bar generator is standard with power more than enough for any line of standard construction. For all ordinary lines it will give perfect satisfaction. The 6-bar generator is especially recommended for long, heavily-loaded lines, and will ring strongly where many other generators could not penetrate.

The Ringer Movement in our Telephone will ring loudly and clearly. Its construction is so planned and the parts so balanced that continued use will not decrease its efficiency.

The Transmitter is of the long distance, solid back type and gives the best of service. It transmits low articulate sounds distinctly over the longest lines. This transmitter, if not tampered with, lasts indefinitely and requires little attention or repairs.

The Receiver is bi-polar and equipped with laminated magnets. This construction insures an absolutely permanent receiver, which may be relied upon at all times. The shell is extra heavy, the binding posts are concealed inside the case, the cord is heavy and will wear well.

The Lightning Arrester. When properly connected it positively protects the telephone against lightning. It is enclosed in a metal casing. We agree to replace any parts of the telephone damaged by lightning provided telephone has been properly installed.

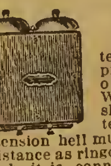
Repairs

We furnish Repairs for any of our telephones at any time. If you have one of our telephones which needs repairs and you do not find the parts you need on this page write for our telephone repair parts list.

Our Telephones Are Guaranteed

We guarantee that every telephone will be exactly as described and give perfect satisfaction, or you may return it and receive back all money you have paid, including transportation charges. If any part proves defective, we will replace or repair it without charge. This guarantee applies to the complete instrument and all its parts.

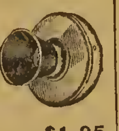
Telephone Extension Bells



May be connected with any telephone at any point away from phone, in another part of house or in some nearby building. When telephone bell rings, Extension Bell rings also. Does not interfere with telephone in any way. Extension bell must have exactly the same OHM resistance as ringer movement on telephones with which it is connected. Shipping weight, 4 pounds.

63 C 1170— 80 ohm (series)....... $2.95
63 C 1172—1000 ohm.............. 3.45
63 C 1174—1600 ohm.............. 3.75
63 C 1176—2000 ohm.............. 3.90
63 C 1178—2500 ohm.............. 4.10

Transmitters



Long distance, solid back transmitter without arm. Will transmit lowest articulate sounds over long distances. Very sensitive and very well constructed. Used on any make telephones. Ship. weight, 16 oz.

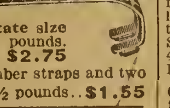
63 C 1130....................... $1.95
63 C 1132—Transmitter, mounted on pony arm, as used on compact cabinet phones. Shipping weight, 28 ounces............... $2.60

Receivers

Standard Model, Bi-polar Telephone Receiver. Equipped with laminated magnets. This construction insures an absolutely permanent receiver. Shell is extra heavy. Binding posts concealed inside case. Cord is heavy and wears well. Same as used on all our phones. May be used on any make of telephone. Shipping weight, 18 ounces.

63 C 1140....................... $1.45
63 C 1141—Receiver Shell. Shipping weight, 8 ounces.......................... 60¢
63 C 1142—Cord with spade tips on one end and solid tips on other end. Length, 36 inches. Shipping weight, 2 ounces.............. 24¢
63 C 1143—Cord with spade tips on both ends. Length, 36 inches. Shipping weight, 2 ounces. .... 24¢

Linemen's Climbers



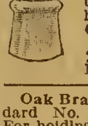
Best tempered steel. 15, 16, 17 or 18 inches. Eastern pattern, no straps. State size wanted. Shipping weight, 4 pounds.

63 C 1235—Per pair...... $2.75
63 C 1240—Set of four climber straps and two knee pads. Shipping weight, 1½ pounds.. $1.55

Miniature Base Porcelain Socket

Screws to any wood support. For small lighting outfits. Weight, 1 ounce. Flashlight lamps on this page fit these sockets.

63 C 2750................ 10¢

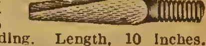


Pony Glass Insulators. No. 9 Standard size usually used for telephone and telegraph lines. Shipping weight, per barrel, 300 pounds.

63 C 1267—Each .... 6¢

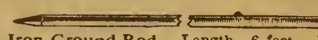
Shipped from Factory in Chicago

263 C 1085—Per barrel of 400........... $21.50



Oak Brackets Standard No. 4 painted. For holding glass insulators. Fasten to side of pole or building. Length, 10 inches. Shipping weight, per hundred, 50 pounds.

63 C 1276—Each .... $ .03
163 C 1087—Per hundred 2.65



Iron Ground Rod. Length, 6 feet. Heavily galvanized. Necessary to insure proper ground contact. Shipping weight, 4 pounds.

463 C 1081—Each.................. 40¢

Insulated Telephone Wire

Consists of two twisted size 19 copper wires, each covered with rubber insulation, over which is cotton braid. Shipping weight, per 100 feet, 4 pounds.

63 C 1217—With dry insulation for inside wiring. Per 100 feet...................... $1.28
63 C 1218—With saturated braid for outside wiring. Per 100 feet................... $1.08

No. 12
No. 14

Telephone Wire. Best grade B. B. Galvanized Iron. In half-mile coils without splice or joint. Extra heavy zinc covering, protects wire from corrosion. Prices subject to market changes. We always give you the lowest price possible.

Shipped from Factory in Chicago

263 C 1075—No. 12 B. B. Galvanized Iron Wire, per half-mile coil. Shipping weight, 85 pounds............................ $6.35
263 C 1077—No. 14 B. B. Galvanized Iron Wire, per half-mile coil. Shipping weight, 47 pounds $3.98

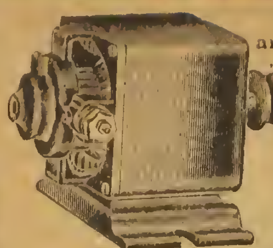
Single Pole Lightning Arrester

63 C 1255—Single Pole Lightning Arrester or line protector for grounded or single wire lines. Western Union pattern, length, 4⅜ inches. Shipping weight without fuse, 4 ounces. Each.......................... 29¢
63 C 1257—Double Pole Lightning Arrester for metallic circuit (two wires) lines. Length, 4⅜ inches. Shipping weight, without fuse, 8 ounces. Each................................ 40¢

Fuses. Flat Mica enclosed. For standard fuse blocks. Shipping wt., per doz., 8 ounces.

63 C 1260—Per dozen.............. 36¢

Charging and Lighting Generator



Delivers current to charge any six-volt lighting or starting battery without adjustment or regulation. Also may be attached direct to lighting line of motorboat and tractor lighting systems, or for any other purpose where direct current of about 8 volts, 8 to 10 amperes is required. Has base for convenient attaching to flat surface. Shipping weight, 10 pounds; 6 inches high, 7½ inches wide, 8½ inches long. Fitted with pulley, 2¼ inches diameter. Delivers about 8 volts, 8 amperes against battery resistance when run at a speed of 2250 revolutions per minute. Amperage increases with speed.

463 C 292—With pulley for ⅜-inch round belt **$11.95**

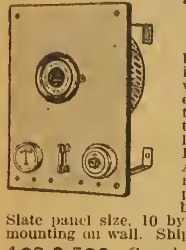
463 C 296—With pulley for 1-inch flat belt **$11.95**

463 C 290—With pulley for ⅜-inch round belt and with low voltage cutout to disconnect charging circuit when voltage drops below 7 volts **$14.95**

463 C 294—Fitted with pulley for 1-inch flat belt and low voltage cutout **$14.95**

Storage Battery Charging Panel

For Use With 30-32 Volt Farm Electric Plant Current



Charges one to five 6-volt batteries, or either equivalent in combinations of 6 and 12 volts, from 32-volt farm electric plant current. Simple to operate. Complete instructions included. Just attach to line and hook on the batteries. Rheostat controls current. Ammeter indicates charging rate. Fuse protects farm plant side. Cost of charging batteries is but a few cents. Slate panel size, 10 by 14 inches with brackets for mounting on wall. Shipping weight, 20 pounds.

463 C 520—Complete **$18.50**

Electric Meters

Electric Meters; 3¼-inch face. Black enameled. Two 1¾-inch posts with nuts and washers project from back for mounting. Direct current meters—D'Arsonval design. Alternating current meter well damped. All are very accurate. Shipping weight, 2 pounds.

Direct Current Volt Meters			Direct Current Ampere Meters		
Art. No.	Scale	Each	Art. No.	Scale	Each
63 C6250	0 3	$6.45	63 C6265	0– 5	$6.45
63 C6252	0– 15	6.45	63 C6267	0–15	6.45
63 C6254	0– 30	6.45	63 C6269	0–30	6.45
63 C6256	0– 50	6.45	63 C6275	30–0–30	6.45
63 C6260	0–150	8.50	63 C6279	60–0–60	7.90

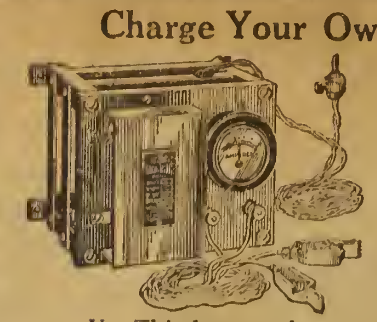
Alternating Current Volt Meters			Alternating Current Ampere Meters		
Art. No.	Scale	Each	Art. No.	Scale	Each
63 C6281	0– 20	$6.75	63 C6286	0– 5	$6.75
63 C6282	0– 30	6.75	63 C6287	0–15	6.75
63 C6283	0–150	8.90	63 C6288	0–20	6.75
63 C6284	0–300	9.85	63 C6289	0–30	6.75

$1.75 Charging Clips

Made of special steel heavily lead coated. Provide perfect connection to battery terminals at all times. Will not develop resistance to current even after long usage. Length, 3¾ inches. Shipping weight, 2 pounds per dozen.

63 C 6197—Per dozen **$1.75**

Charge Your Own Storage Batteries



Use This Improved Battery Charging Rectifier

For charging exhausted batteries or boosting low batteries. The largest starting and lighting battery can be charged for a few cents, usually less than 10 cents even on high rates. Just screw plug into the light socket, attach leads to battery and turn on current. Battery may be left right in the car if desired. Large connecting clips make it easy to hook on to any battery.

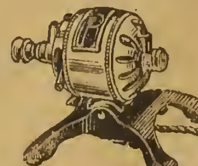
Note: These rectifiers are for use only on 105 to 115 voltage 60-cycle alternating current, which is the usual city lighting current. Will not work on direct current nor 25-cycle currents.

Prices include 10-foot connecting cord with socket plug, ammeter, battery leads and two clips. Length, 7 inches, width, 5 inches, height, 7 inches. Shipping weight, 10 pounds.

63 C 6193—Charges 6-volt battery at 7 amperes rate. Each **$13.95**

63 C 6191—Charges 12-volt battery at average rate of 5 amperes. Shipping weight, 10 pounds. Each **$13.95**

Hamilton Beach Home Motors



An all around household assistant that every woman will appreciate. Lightens many housekeeping tasks and does its work efficiently on a small amount of current. It is especially handy for running the sewing machine as it takes most of the drudgery out of operating the machine. By attaching the Home Motor to your machine you can sew without treading.

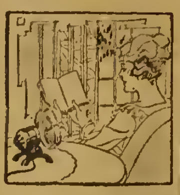
Adapted to any kind of machine except parlor cabinet models. Easily attached without the use of bolts, screws or clamps. Simply place the drive pulley of the motor under the hand wheel of the sewing machine, put foot on lever, and the machine will run until lever is released. Runs fast or slow, as desired.

Shipped complete with foot control, cord and attaching plug. Shipping weight, 8 pounds.

63 C 6055—For city current (105 to 120 volts) **$16.25**

63 C 6056—For 30–32 volt farm plant current .. **$18.65**

Simple Fan Attachment



Fan Attachment, converts motor in a moment into a highly efficient 8-inch electric fan. Shipping weight, 2 pounds.

63 C 6059 .. **$2.40**

Emery Wheel and Buffer

Combination Emery Wheel and Buffer for polishing and grinding. Attaches to motor easily. Shipping weight, 2 pounds.

63 C 6061 .. **$1.35**

Egg Beater Cream Whipper and Salad Mixer

Attaches to home motor. Beats eggs, whips cream, and mixes salads. Shipping weight, 2 pounds.

63 C 6062 . **$4.80**

Christmas Tree Electric Lights

Used instead of candles for decorating Christmas trees and lawns. Will burn in any position and are absolutely safe. Fire danger of candles entirely eliminated. All outfits have perfect lamps of assorted colors, about two candlepower each. Easily and quickly attached to tree. Complete with long attaching cord and plug for light socket. Shipping weight, per set, 2 to 7 pounds.

For use on city lighting current of 105 to 115 volts.

63 C 1621— 8-light outfit **$2.65**
63 C 1622—16-light outfit **5.30**
63 C 1623—24-light outfit **7.95**
63 C 1624—32-light outfit **10.60**

For use with farm lighting plant current of 30–32 volts.

63 C 1632— 8-light outfit **$2.65**
63 C 1633—16-light outfit **5.30**
63 C 1634—24-light outfit **7.95**
63 C 1635—32-light outfit **10.60**

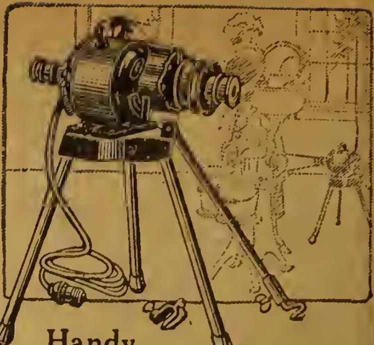
Extra Lamps for Christmas Tree Outfits

Each box contains four lamps, 1 each, clear, red, blue and green. Shipping weight, 4 ounces.

63 C 1652—15-volt lamps for current of 105 to 110 volts. 4 for .... **85¢**

63 C 1654—4-volt lamps for 30–32 volt farm light plant current. 4 for .... **85¢**

Handy Home Utility Motor Outfit

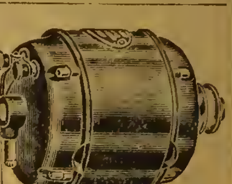


This Motor will be found very useful around the house, workshop or barn. Can be attached to a washing machine, churn, cream separator, ice cream freezer, grindstone, pump, fan mill or any other machine requiring not over ¼ H.P. By means of the handle on top, it may be carried easily wherever it is needed. Iron tripod base has rubber caps on ends of legs to prevent slipping. An adjustable rod with clamp for attaching motor to machine which is to be driven is provided for keeping the belt tight. Fitted with 15-foot cord and plug for attaching to lighting socket. Motor revolves at a speed of 1750 revolutions per minute. Fitted at one end with a combination grooved and flat pulley, diameter, 2 inches. At the opposite end is a reducing gear fitted to combination pulley revolving at 290 R.P.M. This combination pulley has two flat pulleys and 2 grooved pulleys, diameters, 4 and 2 inches each. All grooved pulleys take ⅜-inch round belt and flat pulleys take 1-inch flat belt. Shipping weight, 75 pounds.

163 C 225—For use on farm electric plant current of 30 to 32 volts **$39.50**

163 C 230—For use on 110-volt, 60-cycle alternating (central station) current **$38.50**

Splashproof Motors



For use in places where liquids, such as water and milk are liable to be splashed on to it. Ends carefully enclosed to exclude entirely any ordinary splash, yet are arranged to allow free air circulation for cooling. With this motor, most any hand power washer with a revolving balance wheel may easily be made into an electric. The cream separator, churn, ice cream freezer and similar machines may be driven with it. May be attached to any lighting socket. Fitted with 10-foot cord and attaching plug. Speed about 1750 revolutions per minute except 25-cycle which has a speed of about 1450 R.P.M. Develops better than ¼ horsepower and will carry a temporary 50 per cent overload with but slight rise in temperature. Grooved pulley, effective diameter, 1¾ inches for ⅜-inch round belt. Shaft diameter ½ inch. Shipping weight, 39 pounds.

463 C 200—For 110-volt, 60 cycle, A. C. **$15.95**

463 C 201—For 110-volt, 25 cycle, A.C. **$19.90**

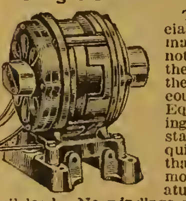
463 C 202—For 220-volt, 60 cycle A. C. **$17.65**

463 C 205—For 32-volt, D. C. **17.45**

463 C 206—For 110-volt D. C. **17.45**

463 C 207—For 220-volt D. C. **19.90**

Single Phase Induction Motor



These motors are especially adapted for operating machinery which requires not over 150 per cent of the power rated to start the load. Designed for continuous hard service. Equipped with ball bearings. Has a 150 per cent starting torque, yet requires less starting current than most single phase motors. Maximum temperature rise 40 degrees C. on full load. No windings on rotor; ¼ and ½ horsepower motors have centrifugal starting switch mounted on motor as shown in illustration but do not have sliding rails. 1 horsepower and larger motors have sliding rails and special double throw starting switches. Run either direction. Speed 1800 R.P.M.

We do not recommend these motors for water pump duty or for use where the starting load is heavy.

Shipped from Factory in St. Louis, Mo.

60 Cycle Single Phase Alternating Current. Order voltage wanted by article number.

H. P.	Volts	Article Number	Price	Pulley Dia. In.	Pulley face In.	Ship. wt. Lbs.
¼	110	263 C 215	$27.00	2½	1½	46
½	110	263 C 216	38.50	3	2	71
1	110	263 C 217	58.00	3½	2½	121
1	220	263 C 218	58.00	3½	2½	121
1½	110	263 C 219	76.00	4	3½	172
1½	220	263 C 221	76.00	4	3½	172
2	110	263 C 222	98.00	4	3½	202

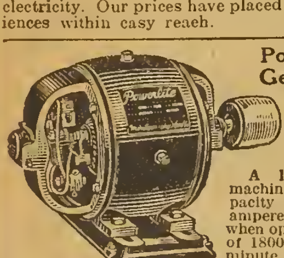
Powerlite Brings Electric Light and Power to Your Farm

You can now afford to have electric lights and power on your farm. In fact, you no longer can afford to be without them. Our Powerlite Farm Electrical Equipment is now priced so low that it is false economy to deny yourself and your family the many comforts of electricity. Our prices have placed city conveniences within easy reach.

While the Powerlite units listed below are exceptionally low in price, they are of decidedly superior quality. They are the highest type of electrical equipment for use on the farm, and are so simple that anyone can operate them. There is nothing about them to require expert attention.

With the Powerlite units shown below we include plans and instructions for setting up and operating lighting plant. The instructions are written in simple, non-technical language that anyone can understand. The only piece of machinery necessary in addition to the Powerlite generator, batteries and switchboard listed below is a 3 horsepower engine. If you do not already have an engine of this capacity on your place, see page 642 of this catalogue.

Powerlite Generator



A large sturdy machine with a capacity of 40 volts, 25 amperes, 1000 watts when operated at a speed of 1800 revolutions per minute. It is of the four-pole type insuring high efficiency, continuous service and an even flow of current. The rating given is the continuous load capacity and the generator can deliver 25 per cent more current than its rated capacity, without excessive heating. The Powerlite Generator has large ring oiled bearings, cast from heavy high grade, special composition metal. Equipped with a sliding base so that the belt slack can be taken up without moving the floor fastening. In order that we may determine what size pulley you should have, we must know the speed of your engine. Also the diameters of the fly wheel and driving pulley. Give us this information when sending your order and we will supply the pulley on the generator of the proper diameter without extra charge.

Regular pulley equipment: Diameter, 4 inches, face, 4 inches. Shipping weight, of generator complete, 150 pounds.

163 C 189—Generator only as described above. Each **$49.50**

63 C 1200—Field Rheostat for use with above generator. Shipping weight, 3 pounds **$6.95**

Powerlite Switchboards

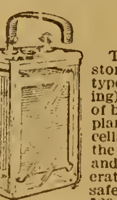
Powerlite Switchboards are made of oil finished black marine slate of the best quality and highest insulating properties. Size, 24 by 16 inches. Carries a complete set of high grade instruments with which to control the lighting plant. The voltmeter indicates current pressure. The ampere meter indicates amount of current flowing in or out of the battery. The rheostat raises or lowers voltage. An automatic circuit breaker protects plant and wiring against short circuit. It is the heart of the plant and is positively dependable at all times. Charging and starting switch enables you to crank gasoline engine by electricity. Light fuses protect battery. Battery fuse is placed between batteries and generator.

Price of Switchboard Separately

163 C 193—Switchboard for floor mounting or wall mounting. Shipping weight, 45 pounds **$43.50**

63 C 1202—Endless Leather Belt, 2 inches wide 14 feet long for connecting lighting plant generator to gas engine. Ship. wt., 3 lbs. **$3.75**

Powerlite Storage Batteries



They will replace the original storage batteries of any make or type 32-volt farm electric (lighting) plant, no matter what make of batteries was originally with the plant. Price includes 16 complete cells of batteries, together with the necessary connecting bolts and straps. All sets carefully crated and packed. We guarantee safe delivery. Shipping weights, 520 and 930 pounds.

Article Number	Battery Size: 8-hr. Discharge Rating Amp. Hr.	Battery Size: Intermittent Rating Amp. Hr.	Price Complete Set
163 C 141	80	120	$ 95.00
163 C 144	160	240	162.00

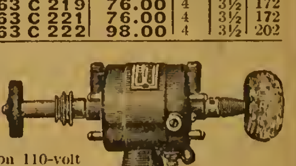
163 C 141 has 7 plates, 5¾ by 7; 163 C 144 has 11 plates, 5¾ by 8⅝.

Battery 163 C 141 has a capacity of 2560 watts and will light 16 20-watt lamps for 8 hours. Battery 163 C 144 has a capacity of 5120 watts or just twice as much as 163 C 141 Battery.

Our Battery Guarantee

We guarantee these Batteries to give lighting service for 5 years when installed and operated according to our instructions, and if they are recharged not oftener than twice a week. If for any reason the battery proves defective or does not give good service within the 5 year period we will make an adjustment allowance toward the purchase of a new battery on the basis of time in service.

Buffer and Grinder



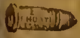
Operates on 110-volt current either direct or alternating. Develops $\frac{1}{20}$ H.P. Operates at speed of 5000 R. P. M. under load. Has sufficient power to operate window displays, sign flashes, 8-inch fans, buffing wheels, rotary spark gaps and small lathes.

Motor has spindle at one end of shaft to take buffing wheel. To other end of shaft is fastened emery wheel and two pulleys, 1 inch and 1¼ inch in diameter. Length over all 8 inches. Supplied with buffing wheel, emery wheel, wax for buffer, 3-foot attachment cord and plug. Shipping weight, 4¼ pounds.

63 C 6079—Complete **$9.95**

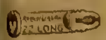
Save money on Lighting Fixtures. Send for our Lighting Fixture Book

Rim Fire Black and Smokeless



22 Cal. Short Cartridges

660 C 1013—22 Short Lesmok. Per box of 50 .... $ .21
Per 1,000 .... 3.96
660 C 1019—22 Short smokeless. Per box of 50 .... $ .23
Per 1,000 .... 4.25

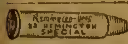


22 Cal. Long

660 C 1037—22 Long Lesmok. Per box of 50 .... $ .25
Per 1,000 .... 4.90
660 C 1040—22 Long Smokeless. Per box of 50 .... $ .31
Per 1,000 .... 6.00

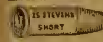
22 Cal. Long Rifle

660 C 1052—22 Long Rifle Lesmok. Per box of 50 .... $ .29
Per 1,000 .... 5.50
660 C 1055—22 Long Rifle Smokeless. Per box of 50 .... $ .36
Per 1,000 .... 6.85



22 Cal. Specials

660 C 1061—22 Remington Special Smokeless. Per box of 50 .... $ .50
Per 1,000 .... 9.82
660 C 1064—22 Automatic Winchester Smokeless. Per box of 50 .... $ .50
Per 1,000 .... 9.82
660 C 1068—22 Remington Auto Loading Smokeless. Per box of 50 .... $ .50
Per 1,000 .... 9.82
660 C 1070—22 Special Winchester Model 1890 Lesmok. Per box of 50 .... $ .45
Per 1,000 .... 8.92
660 C 1073—22 Special Winchester Model 1890 Smokeless. Price, per box of 50 .... $ .50
Per 1,000 .... 9.82

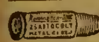


25 Cal. Stevens

660 C 1076—Stevens Short Black. Per box of 50 .... $ .49
Per 1,000 .... 9.38
660 C 1079—25 Stevens R F. Black. Per box of 50 .... 68¢

32 Cal.

660 C 1084—32 Short R. F. Black. Per box of 50 .... 49¢
660 C 1085—32 Long R. F. Black. Per box of 50 .... 56¢

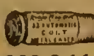


25 and 30 Cal. Automatic Cartridges

660 C 1185—25 Automatic Pistol Smokeless M. P. Per box of 50 .... $1.36
660 C 1188—25 Automatic Pistol Smokeless S. P. Per box of 50 .... $1.36
660 C 1138—30 Luger Smokeless S. P. Per box of 50 .... $2.10
660 C 1141—30 Luger Smokeless M. P. Per box of 50 .... $2.10

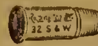
Remington Rifle, Revolver and Pistol Metallic Cartridges

The importance of using dependable ammunition can not be too strongly emphasized. If you are to have satisfactory results in your shooting, you must use the right ammunition. Cartridge making has become an exact chemical and mechanical science, and Remington metallic cartridges are the final result of years of experience and study in the making of small arms ammunition. Every cartridge is perfect and chambers properly. Each style and size is correctly proportioned as to powder charge, weight, shape, size and composition of the bullet. Ammunition may be shipped by freight or express, but not by parcel post.



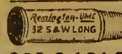
32-38-380 and 45 Automatic Cartridges

660 C 1191—32-Automatic Pistol M. P. Smokeless. Per box of 50 .... $1.48
660 C 1193—32-Automatic Pistol S. P. Smokeless. Per box of 50 .... $1.48
660 C 1231—38 Colt Automatic Smokeless S. P. Per box of 50 .... $2.13
660 C 1233—380 Colt Rimless Automatic Smokeless S. P. Per box of 50 .... $2.06
660 C 1234—380 Colt Rimless Automatic Smokeless M. P. Per box of 50 .... $2.06
660 C 1287—45 Colt Automatic Smokeless M. P. Per box of 50 .... $2.46
660 C 1286—45 Colt Auto Rim Cartridge for Model 1917 Service Revolver. Per box of 50 .... $2.46



32 Cal. C. F. Revolver Cartridges

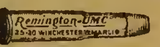
660 C 1143—32 S. & W. Black. Per box of 50 .... 90¢
660 C 1149—32 S. & W. Smokeless. Per box of 50 .... 96¢
660 C 1159—32 S. & W. Long Smokeless. Per box of 50 .... $1.10
660 C 1167—32 Colt New Police Smokeless. Per box of 50 .... $1.10
660 C 1174—32 Colt Short Smokeless. Per box of 50 .... $1.00



38 and 45 Cal. Revolver Cartridges

660 C 1216—38 S. & W. Black. Per box of 50 .... $1.10
660 C 1220—38 S. & W. Smokeless. Per box of 50 .... $1.28
660 C 1241—38 Long Colt Black. Per box of 50 .... $1.20
660 C 1244—38 Long Colt Smokeless. Per box of 50 .... $1.36
660 C 1224—38 S. & W. Special Black. Per box of 50 .... $1.36
660 C 1226—38 S. & W. Special Smokeless. Per box of 50 .... $1.53
660 C 1283—45 Colt Revolver Black. Per box of 50 .... $1.81

25-20 C. F. Cartridges



660 C 1108—25-20 Rept. Black. Per box of 50 .... $1.32
660 C 1110—25-20 Rept. Smokeless S. P. Per box of 50 .... $1.65
660 C 1113—25-20 Rept. Smokeless M. P. Per box of 50 .... $1.65
660 C 1116—25-20 Rept. Smokeless S. P. High Velocity. Per box of 50 .... $1.72

Ammunition can not be shipped by parcel post.

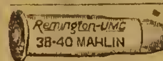
We do not send cartridges C. O. D.

Metallic cartridges, loaded with smokeless powder, are the same shape and size as regular black powder cartridges. Soft point bullets are provided with a metal patch on the point. When the bullet strikes, the patch of harder metal causes the lead bullets to expand in the animal tissue.

Shipping weight of Cartridges,
22 Caliber, per 100, 7 to 20 ounces,
38 Caliber, per 100, 3 to 4½ pounds.
32 Caliber, per 100, 2 to 3 pounds.
44 Caliber, per 100, 4 to 5 pounds.
25-35 and larger sizes, per 100, 4 to 6 pounds.

32-20 C. F. Cartridges

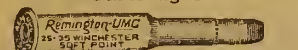
660 C 1208—32-20 Black. For Winchester or Marlin Rifle. Per box of 50 .... $1.32
660 C 1211—32-20 Smokeless S. P. Per box of 50 .... $1.65
660 C 1212—32-20 High Velocity S. P. Per box of 50 .... $1.73
660 C 1214—32-20 Smokeless M. P. Per box of 50 .... $1.65



38-40 and 44-40 Cartridges

660 C 1250—38-40 Black. Per box of 50 .... $1.46
660 C 1253—38-40 Smokeless S.P. Per box of 50 .... $1.87
660 C 1265—44-40 Black. Per box of 50 .... 1.46
660 C 1267—44-40 Smokeless S.P. Per box of 50 .... $1.97
660 C 1270—44-40 Smokeless H. V. S. P. Per box of 50 .... $2.22

25 and 25-35 C. F. Cal. Cartridges



660 C 1292—25-35 Smokeless, soft point. Per box of 20 .... $1.18
660 C 1304—25 Remington Auto Loading. Soft Point Smokeless Cartridges. Per box of 20 .... $1.18
660 C 1307—25 Remington Smokeless Powder, metal cased. Per box of 20 .... $1.18

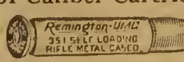
30-30 C. F. and 30 Rimless Cartridges

660 C 1326—30-30 Smokeless, soft point. Per box of 20 .... $1.36
660 C 1328—30-30 Smokeless, metal cased. Per box of 20 .... $1.36
660 C 1341—30 Smokeless Auto Loading, soft point bullet. Per box of 20 .... $1.36
660 C 1343—30 Smokeless Auto Loading, metal cased. Per box of 20 .... $1.36

30-40 C. F. Cartridges

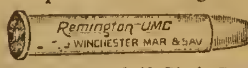
660 C 1346—30-40 Smokeless, soft point. Per box of 20 .... $1.78
660 C 1349—30-40 Smokeless, metal cased. Per box of 20 .... $1.78

351 Caliber Cartridge



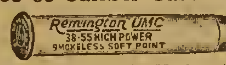
660 C 1413—351 Self-loading Winchester, soft point smokeless cartridges. Per box of 50 .... $2.85
660 C 1416—351 Winchester, metal cased, smokeless. Per box of 50 .... $2.85

32-40 and 32 Winchester Special Cartridges



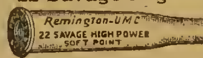
660 C 1365—32-40 Black Powder. Per box of 20 .... 96¢
660 C 1372—32-40 Smokeless Powder, soft point. Per box of 20 .... $1.14
660 C 1383—32-40 H. P. Smokeless Powder, soft point. Per box of 20 .... $1.36
660 C 1386—32-40 H. P. Smokeless Powder, metal cased. Per box of 20 .... $1.36
660 C 1355—32 Special Smokeless, soft point. Per box of 20 .... $1.36
660 C 1357—32 Special Smokeless, metal cased. Per box of 20 .... $1.36

38-55 Caliber Cartridges



660 C 1401—38-55 Smokeless Powder, soft point. Per box of 20 .... $1.43
660 C 1410—38-55 H. P. Smokeless, soft point. Per box of 20 .... $1.58

22 Savage High Power

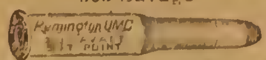


660 C 1290—22 High Power Savage, soft point. Smokeless. Per box of 20 .... $1.36

250-3000 Savage

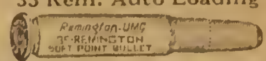
660 C 1319—250-3000 Savage, metal cased. Smokeless. Per box of 20 .... $1.50
660 C 1318—250-300 Savage Soft Nose. Smokeless. Per box of 20 .... $1.50

303 Savage



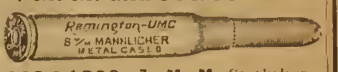
660 C 1333 303 Savage, smokeless, soft point. Per box of 20 .... $1.36
660 C 1334 303 Savage, Smokeless, metal cased. Per box of 20 .... $1.36

35 Rem. Auto Loading



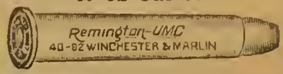
660 C 1420—35 Rem. Auto Loading. Soft point. Per box of 20 .... $1.50
660 C 1423—35 Rem. Auto Loading, metal cased. Per box of 20 .... $1.50

7 M. M. and 8 M. M. Cal.



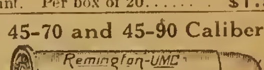
660 C 1309—7 M. M. Smokeless Powder, soft point (no clips). Per box of 20 .... $1.78
660 C 1313—8 M. M. Smokeless Powder, soft point. In clips of 5. Per box of 25 .... $2.58
660 C 1315—8 M. M. Smokeless Powder, metal cased. In clips of 5. Per box of 25 .... $2.58

40-82 Caliber



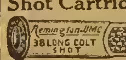
660 C 1443—40-82 Black. Per box 20 .... $1.28
660 C 1446—40-82 Smokeless, soft point. Per box of 20 .... $1.54

45-70 and 45-90 Caliber



660 C 1448—45-70, 405 Grain, Black Powder. Per box of 20 .... $1.25
660 C 1450—45-70 Smokeless, soft point. Per box of 20 .... $1.50
660 C 1460—45-90 Smokeless, soft point. Per box of 20 .... $1.54

Shot Cartridges Black Powder



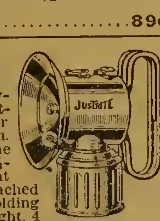
Loaded with shot instead of ball. For use in rifles and revolvers.

660 C 1464—22 Caliber, long rim fire. No. 12 shot. Per box of 50 .47¢
660 C 1466—32 Caliber, long rim fire. No. 10 shot. Box of 50 .... 95¢
660 C 1468—32 Caliber, S. & W. Center fire. No. 10 shot. Box of 50 .. 85¢
660 C 1470—38 Caliber, S. & W. Center fire, No. 10 shot. Box of 50 .... $1.02
660 C 1472—44 Caliber, Winchester. No. 8 shot, center fire. Box of 50 .... $1.41
660 C 1474—38 Caliber, Winchester. No. 10 shot, center fire. Per box of 50 .... $1.41
660 C 1476—45-70 Caliber, No. 5 shot. Per box of 20 .... $1.34
660 C 1478—44XL Shot Cartridges. No. 8 shot. Per box of 50 .... $1.48

Campers' and Miners' Carbide Cap Lamp

Made of brass. Has special windproof and rainproof shield fitted over lava tip, which prevents light blowing out. Will not smoke. Equipped with self lighter attachment. Has 2½-inch reflector. May be worn on cap or attached to boat. Burns two hours on one charge of carbide. Has non-clogging burner which insures uniform light. Height, about 4 inches. Throws light about 60 feet. Uses miners' size ½-inch carbide. Shipping weight, 1 pound.
60 C 8795 .... 89¢

Justrite Carbide Lamp for Campers and Sportsmen

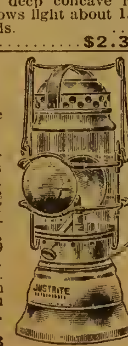


Guard prevents flame blowing out. Has self-lighter attachment, non-clogging water feed. Requires no attention. Burns about 2½ hours on one charge of carbide. Has 2⅝-inch reflector. Throws light about 75 feet. Can be attached on the hat or belt and has folding handles for carrying. Height, 4 inches. Shipping weight, 16 ounces.
60 C 8791 .... $1.37

Justrite Carbide Lamp with Handles

Made of brass nickel-plated, highly polished with handles and hooks. Has self-lighter attachment also wind and rainproof guard to prevent light blowing out. Has uniform continuous water feed. Does not clog. Burns about 6 hours on one charge of carbide. Indispensable for all around outdoor use. Has 3 inch deep concave reflector. Height, 6 inches. Throws light about 150 feet. Shipping weight, 2 pounds.
60 C 8793 .... $2.39

Justrite Carbide Lantern

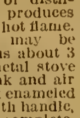


Suitable for watchmen, mine superintendents, engineers, sportsmen or for camp light, factories, or garages. A powerful light. Burns 5 to 6 hours on one charge of carbide. Flame controlled by valve, same as regular Lantern. Made of brass, nickel-plated and polished. Will not blow out. Clean, no smoke or grease. Height, 9 inches; base of diameter, 4¼ inches; weight, 1½ pounds. Strong lens and reflector. In metal case with extra carbon container. Shipping weight, 2½ pounds.
60 C 8830 .... $4.98

Justrite Hunters' Searchlight

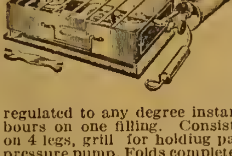
Includes belt and self-lighter. Headlight made of brass. Nickel finish. Attached to steel generator by rubber hose. Generator, black enamel finish. Lens 2½ inches in diameter. Burns 10 hours on one charge of carbide. Throws light 300 feet. Fastens to any cap. Shipping weight, 4 pounds.
60 C 8824 .... $5.25
60 C 8829—Khaki Canvas Cap with shield. Sizes, 6⅞, 7, 7⅛, 7¼, 7⅜, 7½. State size wanted. Shipping weight, 4 ounces .... 23¢
60 C 8826—Corduroy cap with shield. Turn-down flap to cover ears and neck. Sizes, 6⅞, 7, 7⅛, 7¼, 7⅜, 7½. State size wanted. Shipping weight, 4 ounces .... 45¢

Carbide



To be used with any lamps which burn carbide. Gives a clear, bright light. 2-pound can. Shipping weight, per can, 2½ pounds. Not mallable.
66 C 8796—2-pound can .... 26¢

American Kamp Kook Stove



Handy two-burner compact Camp Stove. Burns ordinary gasoline or distillate and produces intensely hot flame. Burners may be regulated to any degree instantly. Burns about 3 hours on one filling. Consists of all metal stove on 4 legs, grill for holding pan, fuel tank and air pressure pump. Folds complete into black enameled metal case, 14½ by 8 by 3½ inches. With handle, weighs only 8 pounds. Shipping weight, complete, 10 pounds.
60 C 8962—Stove complete $6.79

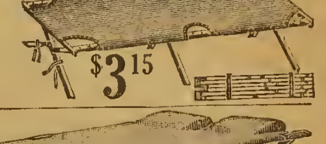
Auto Kamp Kook Kit

A portable folding Gasoline Stove equipped to meet the requirements of the tourist, camper, hunter or anyone who enjoys outdoor life.

Bodies of stoves are made of 24 gauge steel, nicely enameled in black. Burners are well made, producing a flame of intense heat. Outfit consists of folding stove with two 6-inch grates, coffee pot, frying pan, one sugar and one coffee retainer, pressure pump and funnel all packed in a small portable metal case. Dimensions folded, 5½ by 10½ by 16½ inches. Shipping weight, 17 lbs.
460 C 8960—Outfit complete $13.95
460 C 8961—Stove only, without cooking utensils. Shipping weight, 15 pounds .. $12.95

HANDY DEPENDABLE CAMP FURNITURE

"Sleepy Hollow" Camp Cot



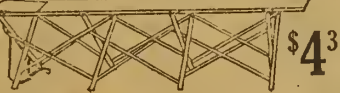
Well made of canvas duck with hardwood supports, comfortable and strong enough to hold an average size person. When opened it is a full length, easy elastic bed. Folded it is a small package, 3 feet 2 inches long, 5 inches thick and 7¼ inches wide. Has iron straps to reinforce legs. Size open: Width, 27 inches; length, 6 feet 6 inches. Shipping weight, 20 pounds.
460 C 9678 .... $3.15

Gold Medal Double Size Camp Cot

A double width Cot Bed especially adapted for campers, tourists or for use in the home. When opened it measures 52 inches wide, 78 inches long, and stands 18 inches high. Size folded, 5 inches by 10 inches by 3 feet 3 inches long. Made of select, well seasoned rock elm with heavy white duck bed. Metal parts of heavy gauge steel, strongly braced throughout. Center rail prevents the bed from sagging. Shipping weight, 32 pounds.
460 C 9674 .... $8.75

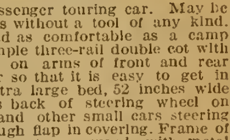
See Page 555 for Tents.

Improved Automatic Cot



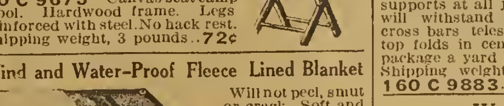
Automatically adjusts itself to uneven surfaces through eccentric swivel joints. Occupant always lies level and comfortable regardless of unevenness of the ground. Frame is select hardwood with strong steel braces. Cover is 12 ounces, double filled brown duck. Has Duck pillow fold. Quickly set up. Will hold weight of 600 pounds. Dimensions open, 6 feet 6 inches long, 27 inches wide, 18 inches high; folded, 32 inches long, 7½ inches wide, 4 inches thick. Shipping weight, 17 pounds.
460 C 9672 .... $4.35

Camp Stools and Chairs



60 C 9671—Canvas seat camp chair. Hardwood frame. Back rest. Steel braced legs. Shipping weight, 4 pounds .... 95¢
60 C 9675—Canvas seat camp stool. Hardwood frame. Legs reinforced with steel. No back rest. Shipping weight, 3 pounds .. 72¢

Wind and Water-Proof Fleece Lined Blanket

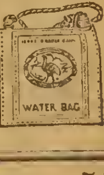


Will not peel, smut or crack. Soft and pliable. Warm fleece lining. May be laced up like a sleeping bag, used as a top blanket, as an emergency shelter tent, auto robe or storm blanket. Edges bound, with metal eyelets for lacing sides together. Size, 60 by 82 inches. Weight, 7½ pounds. Shipping weight, 8 pounds.
60 C 8895 .... $5.95

Automobile Bed

Fits any 5 or 7 passenger touring car. May be set up in 2 or 3 minutes without a tool of any kind. As simple to set up and as comfortable as a camp cot. It is just a simple three-rail double cot with supports which rest on arms of front and rear seats. Sets low in car so that it is easy to get in and out. Makes an extra large bed, 52 inches wide and 6 feet long. Sets back of steering wheel on big cars; on Fords and other small cars steering wheel protrudes through flap in covering. Frame of bed is made of extra strong wood with metal supports at all joints. The heavy khaki duck top will withstand the hard usage of touring. The cross bars telescope together for packing and the top folds in center and rolls up into a compact package a yard long by seven inches in diameter. Shipping weight, 25 pounds.
160 C 9883 .... $12.45

Water Bag



Made of specially constructed duck. Bag is fitted with mouthpiece with cork attached, and adjustable rope handle.
60 C 8996—No. 1. Capacity, about 1 gallon. Shipping weight, 13 ounces .... 79¢
60 C 8997—No. 2. Capacity, about 2 gallons. Shipping weight, 17 ounces $1.35

Rifle and Shotgun Cleaning Supplies

Three-in-One Oil

Handy oil can filled with 3-in-1 Oil. The oil with the world wide reputation. Flip pocket size. Has self sealing spout. Can't leak. Just the can hunters, fishermen, carpenters, autoists and mechanics want. Also handy about the house.

60 C 2037—3-ounce can. Shipping weight, 5 ounces. ..... 29¢

60 C 2036—8-ounce bottle. Shipping weight, 11 ounces..... 48¢

Marble's Nitro Solvent

Nitro Solvent cleans, polishes, preserves and lubricates. Stops corrosion by neutralizing the acid. Fills every need of a good gun oil. Polishes anything of metal or wood. Never gums.

60 C 2041—2-ounce bottle. Shipping weight, 5 ounces ..... 30¢

60 C 2042—6-ounce can. Shipping weight, 10 ounces. ..... 58¢

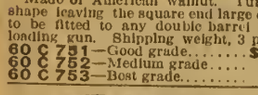
Walnut Gun Stocks

95¢

Made of American walnut. Turned to shape leaving the square end large enough to be fitted to any double barrel breech loading gun. Shipping weight, 3 pounds.

60 C 751—Good grade..... $ .95
60 C 752—Medium grade..... 1.25
60 C 753—Best grade..... 2.00

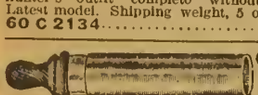
Duck Call



Allen's Improved Duck Call. Made of seasoned wood, metal ends. Natural toned, easy blowing, used in the field by the best duck hunters in America. No hunter's outfit complete without one. Latest model. Shipping weight, 5 ounces.

60 C 2134..... 68¢

Goose Call



The Fuller Metallic Wild Goose Caller. Locates the geese. Shipping weight, 6 ounces.

60 C 2141..... $1.48

Duck Call

Olt's Improved Famous Duck Call. Constructed entirely of hard rubber. Will not check or crack. Not affected by water or weather. Good tone. Easy to operate. Shipping weight, 4 ounces.

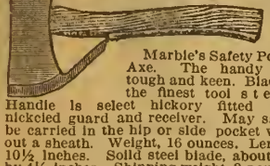
60 C 2132..... 67¢

Improved Crow Call

Improved Crow Call. Made of seasoned wood. Easy to use. Shipping weight, 2 ounces.

60 C 2137..... 35¢

Marble's Axe $1.69



Marble's Safety Pocket Axe. The handy axe, tough and keen. Blade of the finest tool steel. Handle is select hickory fitted with nickeled guard and receiver. May safely be carried in the hip or side pocket without a sheath. Weight, 16 ounces. Length, 10½ inches. Solid steel blade, about 2½ by 4½ inches. Shipping weight, 2 pounds.

60 C 2101..... $1.69

Hunter's Axe $1.95

Hunters' and Campers' Axe. High quality, light in weight but strong and well made. Axe of tempered steel fitted with hickory handle, 14 inches long. Blade, 5¼ by 3 inches, with nail pulling slot. Complete with heavy russet leather safety sheath with shoulder carrying strap as illustrated.

60 C 2108—Axe with sheath. Shipping weight, 4½ pounds..... $1.95

60 C 2110—Axe without sheath. Shipping weight, 3½ pounds..... $1.25

Cheek Pad

Leather Cheek Pad, made of pebbled grain leather chamois lined, padded and stitched at top. May be laced and adjusted to any size gun stock. Shipping weight, 6 ounces.

60 C 2172..... $1.15

Ivory Bead Front Sight

Gives the Sportsman a clear white bead, which can be seen against any object in the woods or in bright sunlight. State make, model and caliber. Shipping weight, 1 ounce.

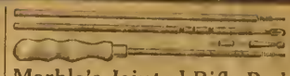
60 C 727..... 89¢

Adjustable Leaf Sight 98¢

Marble's Adjustable Leaf Sight is adjustable for either notch. State make, model and caliber. Shipping weight, 2 ounces.

60 C 708..... 98¢

Marble's Jointed Rifle Rod

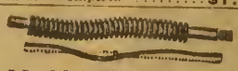


A three-section Cleaning Rod, well made. Fitted with wooden handle. Each section is about 11 inches long and the rod when put together measures about 35 inches with top. Complete in cloth bag. Ship. wt., complete, 11 oz.

60 C 1952—For .22 and .25 caliber rifles. Complete..... $1.35

60 C 1954—For .28 to .50 caliber rifles. Complete..... $1.35

Marble's Rifle Cleaner

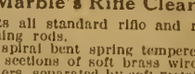


Fits all standard rifle and revolver cleaning rods.

A spiral bent spring tempered wire, with sections of soft brass wire gauze washers, separated by soft metal washers. The spring presses but one side of each section against the bore, and the twist makes the cleaner follow the angles; will outwear many other brushes. Shipping weight, 3 ounces.

60 C 1881—.22 caliber ..... 57¢
60 C 1883—.25 caliber ..... 57¢
60 C 1885—.30 caliber ..... 57¢
60 C 1887—.32 caliber ..... 57¢

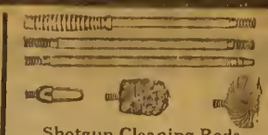
Tomlinson Wire Gauze Cleaner and Polisher



For removing pits. Cleaner made of wire netting stretched over adjustable frame. Will screw onto any standard jointed gun cleaning rod. Length, 3½ inches. Shipping weight, 5 ounces. Two sets of wire gauze cleaners included.

60 C 1847—12 gauge. Each.. 25¢
60 C 1848—16 gauge. Each.. 25¢

Shotgun Cleaning Rods



A three-section hardwood shotgun Cleaning Rod with scratch brush, swab and wiper. Filled with patent brass joints making the rod strong and firm. Shipping weight, 6 ounces.

60 C 1822—Will fit 10, 12 or 16 gauge. Per set..... 32¢

60 C 1826—Will fit 20 or 28 gauge. Per set..... 32¢

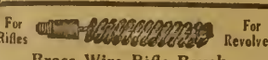
60 C 1831—For 410 or .44 caliber guns. Per set..... 32¢

Redwood Cleaning Rod

Nickel trimming and 3 implements: swab, scratch brush and wiper. Will fit 10, 12 or 16 gauge. Ship weight, complete, 8 ounces.

60 C 1829—Complete. $1.28

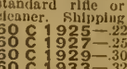
Brass Wire Rifle Brush



Specially made for cleaning rust and burnt powder out of rifles. Fits any standard rifle or revolver rod and cleaner. Shipping weight, 2 ounces.

60 C 1925—.22 Caliber ..... 10¢
60 C 1927—.25 Caliber ..... 10¢
60 C 1929—.30 Caliber ..... 10¢
60 C 1933—.32 Caliber ..... 10¢

Brass Wire Brush for Shotguns



For removing lead caking and rust spots from gun barrels; can be attached to any standard jointed gun rod; one brush will fit but one gauge. Shipping weight, 4 ounces.

60 C 1859—12 gauge..... 39¢
60 C 1861—16 gauge..... 40¢
60 C 1863—20 gauge..... 42¢
60 C 1862—28 gauge..... 41¢

Jointed Rod, Four Pieces

A four-section rifle Cleaning Rod, fitted with wood handle and slotted head. Sections about 8 inches long. Rod put together is approximately 33 inches long. All parts are interchangeable. Shipping weight, 8 ounces.

60 C 1902—.22 caliber..... 35¢
60 C 1903—.25 to .33 caliber. 35¢
60 C 1904—.35 to .45 caliber. 35¢

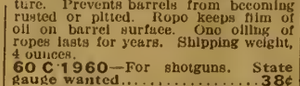
Marble's Anti-Rust Ropes

A very effective article for prolonging the life of a gun. Soak with gun oil and draw into barrel of gun, before putting away. Excludes air and moisture. Prevents barrels from becoming rusted or pitted. Rope keeps film of oil on barrel surface. One oiling of ropes lasts for years. Shipping weight, 4 ounces.

60 C 1960—For shotguns. State gauge wanted..... 38¢

60 C 1962—For rifles. State caliber wanted..... 38¢

Pocket Style Rifle Cleaner



Consists of a bristle brush and slotted wiper, with detachable cord and weight for dropping through barrel. Packed in a canvas bag. Ship. weight, 5 ounces.

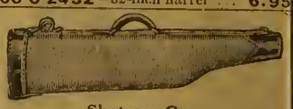
60 C 1870—.22 caliber..... 20¢
60 C 1871—.25 caliber..... 20¢
60 C 1872—.30 caliber..... 20¢
60 C 1873—.32 caliber..... 20¢
60 C 1874—.38 caliber..... 20¢

Cowhide Shotgun Case

Fine quality oak tan cowhide; strongly reinforced. Leather handle and return shoulder sling. Brass plated lock buckle, name plate and trimmings. Flannel lined. Inside pocket to carry rod. Adjustable ridge board between barrel and stock. For single or double barrel and repeating shotguns. Shipping weight, 5 pounds.

60 C 2430—28-inch barrel. $6.95
60 C 2431—30-inch barrel. 6.95
60 C 2432—32-inch barrel. 6.95

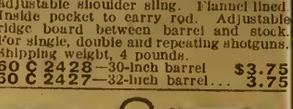
Shotgun Case



Stiff leg o'mutton Case. Khaki canvas covered, reinforced. Leather handle and adjustable shoulder sling. Flannel lined. Inside pocket to carry rod. Adjustable ridge board between barrel and stock. For single, double and repeating shotguns. Shipping weight, 4 pounds.

60 C 2428—30-inch barrel $3.75
60 C 2427—32-inch barrel... 3.75

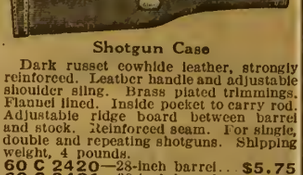
Shotgun Case



Dark russet cowhide leather, strongly reinforced. Leather handle and adjustable shoulder sling. Brass plated trimmings. Flannel lined. Inside pocket to carry rod. Adjustable ridge board between barrel and stock. Reinforced seam. For single, double and repeating shotguns. Shipping weight, 4 pounds.

60 C 2420—28-inch barrel.. $5.75
60 C 2421—30-inch barrel... 5.75
60 C 2422—32-inch barrel... 5.75

Repeating Shotgun Case



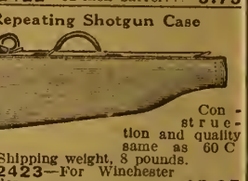
Construction and quality same as 60 C 2420. Shipping weight, 8 pounds.

60 C 2423—For Winchester self loader..... $5.95

60 C 2424—For Remington auto loader..... 5.95

60 C 2425—For Remington 20 gauge pump gun..... 5.95

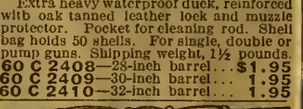
Gun Case and Shell Bag



Extra heavy waterproof duck, reinforced with oak tanned leather lock and muzzle protector. Pocket for cleaning rod. Shell bag holds 50 shells. For single, double or pump guns. Shipping weight, 1½ pounds.

60 C 2408—28-inch barrel... $1.95
60 C 2409—30-inch barrel... 1.95
60 C 2410—32-inch barrel... 1.95

Rifle Case



Full length Rifle Cover. Heavy tan duck. Full canvas bound with leather lock and muzzle protector, handle and sling. Shipping weight, 1 pound.

60 C 2363—Winchester 94... $1.65
60 C 2364—Winchester 97-30. 1.65
60 C 2368—Remington Auto loading..... $1.65

Shotgun Case

Light weight takedown Gun Cover of brown duck. Inside rod pocket. Flannel lined. For single and double or pump guns. Shipping weight, 1 pound.

60 C 2384—28-inch barrel..... 85¢
60 C 2385—30-inch barrel..... 85¢
60 C 2386—32-inch barrel..... 85¢

Shotgun Case

High grade takedown Rifle and Shotgun Cover. Made of extra heavy waterproof brown duck, reinforced leather muzzle and lock protectors. Flannel lined. Implement pocket, for single, double or repeating shotguns. Shipping weight, 1½ pounds.

60 C 2400—26-inch barrel ... $1.65
60 C 2401—28-inch barrel .. 1.65
60 C 2402—30-inch barrel... 1.65
60 C 2403—32-inch barrel... 1.65

Repeating Gun Cases

Same construction as 60 C 2400-3 Gun Cases. Shipping weight, 1 pound.

60 C 2414—Case for Remington auto loading shotgun..... $1.75

60 C 2415—Case for Winchester self loading shotgun..... $1.75

60 C 2416—Case for Remington 20 gauge..... $1.75

Recoil Pads

Made of fine quality, soft, tan calfskin with molded sponge rubber cushion. Shipping weight, 6 ounces.

60 C 2168—For 16 gauge gun..... $1.65

60 C 2170—For 12 gauge gun..... $1.65

These are Better Decoys for Less Money

All experienced duck hunters know that with life-like decoys it is much easier to attract ducks within gun range. Our decoys have been carefully copied from live models to get the proper shape and color. Each of the different species have imported red and yellow glass eyes. Life size, cut from solid cedar blocks and covered with waterproof paint, these decoys are guaranteed not to crack and will withstand continual exposure. Each dozen lot consists of eight Drakes and four Hens. A few of these decoys included in your equipment will add greatly to the success of your hunting trip.

Extra Values $9.85 Per Dozen

Bluebill Decoys

These Bluebill Decoys look like the real thing; short and cobby, well set heads; imported glass eyes; correctly painted with waterproof oils, by artists who know how. Shipping weight, per dozen, 30 pounds.

60 C 2245—
Each..... $ .95
Per dozen..... 9.85

Pintail Decoys

Note the shape of our Pintail Decoys; long pike tail, correctly shaped; high slender head; imported glass eyes; beautifully painted with the best waterproof oils. Shipping weight, per dozen, 30 pounds.

60 C 2249—Each ... $ .95
Per dozen..... 9.85

Canvas Back

Care has been taken to produce a most lifelike appearance of this grand bird; beautiful dark red head; black breast; white back and belly; imported glass eyes; extra large. Shipping wt., per dozen, 30 pounds.

60 C 2244—Each .$ .95
Per dozen..... 9.85

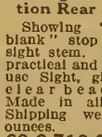
60 C 2248—Red Head.
Each..95¢ Per doz..$9.85

Mallard Decoys

Gracefully designed and artistically painted rich emerald green heads with imported red and yellow eyes; large mallard shape, and painted with very best waterproof oil colors. Shipping weight, per dozen, 30 pounds.

60 C 2243—Each..$ .95
Per dozen..... 9.85

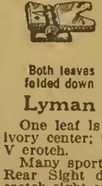
Combination Ivory Front Sight



Good for all around shooting. May be used either with ivory bead or blue steel bead in center of circle. Nearly all shooting should be done with the ivory part. State make, model and caliber. Shipping weight, 2 ounces.

60 C 720.....$1.65

Ivory Bead Carhine Front Sight



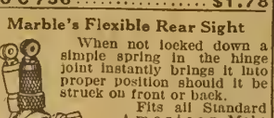
For Winchester 39-40 army rifle and Winchester and Marlin carbines. State make, model and caliber. Ship. wt., 2 oz.

60 C 735..... 90¢

Folding Combination Rear Sight

Showing "point-blank" stop in the sight stem. A very practical and easy to use Sight, giving a clear bead view. Made in all sizes. Shipping weight, 4 ounces. State make, model and caliber wanted.

60 C 710.$4.38



Both leaves folded down — Using the notch — Using the straight bar

Lyman Rear Leaf Sight

One leaf is a bar with a triangular ivory center; the other is a wide open V crotch.

Many sportsmen who use the Lyman Rear Sight do so with the ordinary crotch sight on the barrel.

The bar leaf is excellent as a twilight sight. State make, model and caliber. Shipping weight, 2 ounces.

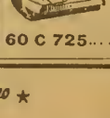
60 C 736..... $1.78

Marble's Flexible Rear Sight

When not locked down a simple spring in the hinge joint instantly brings it into proper position should it be struck on front or back.

Fits all Standard American Make Rifles. State make, model and caliber. Shipping weight, 4 ounces.

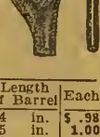
60 C 700.$3.35



Ivory Bead Jack Front Sight for quick shooting. State caliber, make and model. Shipping weight, 2 ounces.

60 C 725..... 89¢

Decoy Anchor

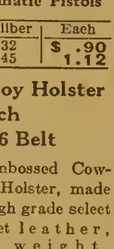


Made of galvanized non-rust iron. Has small loop for cord. Shipping weight, per dozen, 5 pounds.

60 C 2251—Per dozen..... $1.65

HOLSTERS

Texas Lone Star Shoulder Holster



Made of stiff leather with breast and shoulder piece and elastic web strap. Has 6 loops for extra cartridges. To fit Colt's Army, Police Positive, New Service and Single Action; also S. & W. Military and Police Revolvers. Shipping weight, 5 ounces.

Article Number	Caliber	Length of Barrel	Each
60 C 2575	.32 or .38	4 in.	$ .98
60 C 2576	.32 or .38	5 in.	1.00
60 C 2577	.32 or .38	6 in.	1.00
60 C 2582	All calibers	5½ in.	1.25

To Fit Colt's Automatic Pistols

Article Number	Caliber	Each
60 C 2591	.32	$ .90
60 C 2593	.45	1.12

Embossed Cowboy Holster To Match 60 C 2680-86 Belt

Embossed Cowboy Holster, made of high grade select russet leather, good weight. Beautifully embossed, which makes it very attractive. It is sure to please you.

To fit Colt's Army, Police Positive, New Service and Single Action; also S. & W. Military and Police Revolvers. Shipping weight, 8 ounces.

Article Number	Caliber	Length of Bbl.	Each
60 C 2650	.32 or .38	4 in.	$2.28
60 C 2652	.32 or .38	5 in.	2.28
60 C 2654	.32 or .38	6 in.	2.45
60 C 2658	All calibers	5½ in.	2.45
60 C 2660	All calibers	7½ in.	2.85

Anson Mills Shotgun Belt

A handy, easy to wear, adjustable shot Shell Belt, fitted with detachable shoulder strap. Woven in one piece, of special web fabric. Adjustable to any waist size. Capacity, 30 shells. Shipping weight, 1½ pounds.

60 C 2751—12 gauge.....$2.45
60 C 2752—16 gauge..... 2.45
60 C 2753—20 gauge..... 2.45

The Mills Hunters' Belt

The loops are woven, closed at the bottom, protecting the crimped end of shell, no sewing on the belt whatever. Woven in one piece, of special web fabric. Capacity, 25 shells. Adjustable to any waist size. Shipping weight, 14 ounces.

60 C 2755—12 gauge.....$1.95
60 C 2756—16 gauge..... 1.95
60 C 2757—20 gauge..... 1.95

Embossed Cowboy Belt to Match Our Cowboy Style Holsters

Made of select russet leather, embossed giving very neat appearance, 2¼ inches wide, with large plated buckle. Matches 60 C 2650-60 Holster. Sizes: 34 to 42 inches waist measure. State size wanted. Shipping weight, 12 ounces.

60 C 2680—.32 caliber.....$2.35
60 C 2682—.38 caliber..... 2.35
60 C 2684—.44 caliber..... 2.35
60 C 2686—.30-.30 caliber. 2.35

Leather Cartridge Belt

A well made Cartridge Belt of good russet leather with loops for cartridges. Suitable for rifle or revolver ammunition; 1½ inches wide with plated buckle. Sizes: 34, 36, 38, 40 and 42-inch waist measure. Shipping weight, 7 ounces.

60 C 2711—.32 caliber..... 69¢
60 C 2712—.38 caliber..... 69¢
60 C 2714—.44 caliber..... 69¢

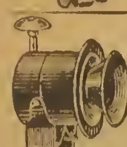
Look over the line of Game Traps we show on Page 607

Bicycle Accessories

Bicycle Signal Horn

A black enamel sheet iron Horn, well made. Produces highly penetrating sound. Size 4½ inches high, 3⅛ inches long. With bracket. Shipping weight, 1 pound.

60 C 3581 .... 79¢



Rollfast Bicycle Hand Signal

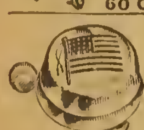
Gives penetrating tone like that of an automobile horn. Sheet iron, finished in high-grade black enamel. Easily adjusted to handlebars. Height, 4¾ inches. Shipping weight, 1½ pounds.

60 C 3578 .... 95¢

The Siren Alarm

Fastens to side of fork just above tire. Pulling string revolves roller, producing whistling sound which carries for long distances. Not practical when mud guard projects ahead of fork. Nickel-plated and polished. Shipping weight, 1 pound.

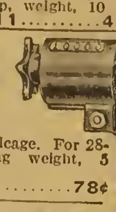
60 C 3615 .... 78¢



Bicycle Bell

Clear tone bell, handsomely nickel plated with American flag in actual colors enameled on top. Has pusher-ringer for thumb. Exceptional value. Ship, weight, 10 oz.

60 C 3611 .... 42¢



New Departure Cyclometer

Registers 10,000 miles then repeats. Shows tenths of miles. Silver color dial. Black numbers. Attaches to front axle. Adds interest to your long distance runs. Keeps tire mileage. For 28-inch wheels only. Shipping weight, 5 ounces.

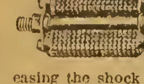
60 C 3630 .... 78¢

Veeder Trip and Total Mileage Cyclometer

Mechanical parts scientifically designed and accurately made. Registers the trip and total mileage on separate dials. Keeps tab on tire mileage. Every bicycle should have one. For 28-inch wheels. Shipping weight, 6 ounces.

$1.95

60 C 3626 ...... $1.95



Best Quality Rubber Bicycle Pedals

Fitted with black rubbers corrugated at angles, giving a secure foothold as well as easing the shock of steady pressure. Has self contained steel 3/16 ball bearings, giving longer wear and smoother operation. Metal parts heavily nickel plated and polished. We carry only the best grade of pedals. Shipping weight, per pair, 2¼ pounds.

60 C 3593—Per pair .... 98¢

Pedal Rubbers

60 C 3599—Pedal Rubbers fit bicycle and motorcycle pedals. Hole through center. Shipping weight, per set, 14 ounces. Per set of 4.... 15¢

Bicycle Roller Chain

Runs smoothly and quietly. Standard length. Shipping weight, 1½ pounds.

60 C 3861—For sprockets 3/16 inch wide with 1 inch pitch $1.45

60 C 3862—For sprockets ⅛ inch wide with ½ inch pitch $1.55

Repair Link

Shipping weight, 3 ounces.

60 C 3865—For 3/16 inch roller chain with 1 inch pitch... 10¢

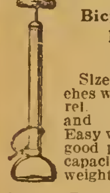
60 C 3866—For ⅛ inch roller chain with ½ inch pitch .... 10¢

Motorcycle Roller Chain

Sizes: ⅝ inch pitch. Widths, ¼ inch and ⅜ inch. Shipping weight, per foot, 12 ounces.

60 C 3954—⅝ by ¼ inch. Per foot ..... 62¢

60 C 3956—⅝ by ⅜ inch. Per foot ..... 71¢



Bicycle Foot Pump

Size, 1¼ by 12 inches with steel barrel. Cast base and screw top. Easy working. Has good pressure and capacity. Shipping weight, 2 pounds.

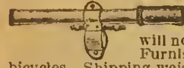
60 C 3507 .... 39¢

Bicycle Tool Kit Pump

Made of seamless brass tubing. Nickel plated; ⅞ inch diameter. Fits tool kit or attaches to frame. Shipping weight, 4 ounces.

60 C 3522

Each .... 15¢



Bicycle Frame Pump

Made of seamless brass tubing, nickel plated, will not rust. Size ⅞ by 11 inches. Furnished with clip to fit all bicycles. Shipping weight, 7 ounces.

60 C 3518 .... 43¢

Deep Center Guard Sets

Wide deep center; drop side steel Mud Guards similar to those used on most expensive motorbikes. Easily and quickly installed. Will fit any bicycle with 28-inch wheels. Ship.wt., pair, 4½ lbs.

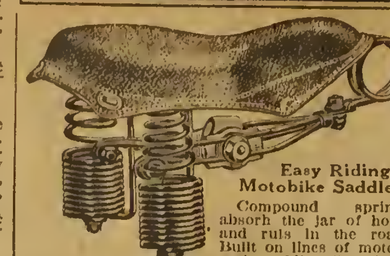
60 C 3393—
Per pair ...... 89¢

Pressed Steel Mud Guards

Complete front and rear Guards with braces and rubber mud protector flap. Light weight. Baked black enamel finish. Practically rustproof. Pair with attaching outfit. For 28-inch wheels. Ship. wt. 4 pounds.

75¢

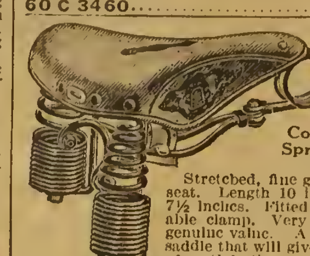
60 C 3395—
Per pair ...... 75¢



Easy Riding Motobike Saddle

Compound springs absorb the jar of holes and ruts in the road. Built on lines of motorcycle saddle. Seat 10½ inches long, 8½ inches wide; well padded with hair; adjustable attaching clamp. Shipping weight, 6 pounds.

60 C 3460 .... $1.93



$1.78

Compound Spring Seat Saddle

Stretched, fine grain leather seat. Length 10 inches; width 7½ inches. Fitted with adjustable clamp. Very flexible. A genuine value. A comfortable saddle that will give many years of satisfaction. Shipping weight, 5 pounds.

60 C 3464 .... $1.78

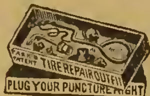
Standard black friction tape. Extra strong. Powerfully adhesive. Very handy for every kind of bicycle repair work. Keep a roll in your tool kit for emergencies; ¼-pound roll. Shipping weight, per roll, 5 ounces.

60 C 3735—Per roll .... 11¢

Tire Repair Tool

For repairing single tube tires. Uses ordinary rubber bands and rubber cement. Shipping weight, 2 ounces.

60 C 3818 .... 10¢



Park's Patented Tire Repair Outfit.

Kit includes inserting tool, cap for cement, and six various size oval shape rubber puncture plugs. Shipping weight, of outfit, 8 oz.

60 C 3821 .... 42¢

Tire Puncture Solution

Stops punctures perfectly and does not dry up. Is not affected by cold or heat. Will not clog or injure valve. One tube is sufficient for one tire. Size of tube, 1½ by 6 inches. Shipping weight, 10 ounces.

60 C 3760—Per tube .... 10¢
Two tubes .... 19¢

Wood Rim Liquid Cement

Tube 4 by 1 inches. Shipping weight, of two tubes, 6 ounces.

60 C 3753—Two tubes. 12¢

Rubber Cement

For patching inner tubes. Safe to handle. Non-explosive. Tube four by one inches. Shipping weight, 6 ounces.

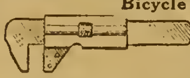
60 C 3743—2 tubes .... 12¢

Tire Valve

For replacing old wornout valves on single tube tires. Large bearing surface gives a sure anti-leak grip. Shipping weight, 2 ounces.

60 C 3815 .... 22¢

Bicycle Wrench



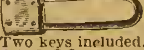
Strong, well made Wrench designed for bicycle work. Length, 5¾ inches. Shipping weight, 9 ounces.

60 C 3848 .... 14¢

Enamel

One ¼-pint can will enamel a bicycle and give it a hard, smooth and brilliant finish. Specify Color—Black, Royal Blue, Vermilion, Dark Green, Battleship Gray, Yellow, White or Khaki. Shipping weight, per can, 8 ounces.

60 C 3770—Per ¼-pint can.. 18¢

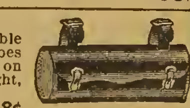


Bicycle Lock

Made of brass, will not rust; 3½-inch shackle. Two keys included. Shipping weight, 8 ounces.

60 C 3657 .... 56¢

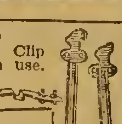
Tool Bag



A handsome, durable leather Tool Bag. Attaches to back of saddle or on frame. Shipping weight, 6 ounces.

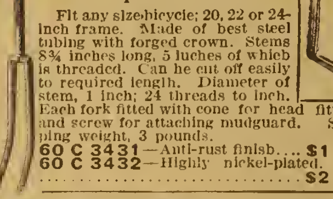
60 C 3572 .... 38¢

Bicycle Stand and Clip



Protects bicycle from falling. Clip for holding stand when not in use. Shipping weight, 3½ pounds.

60 C 3382 .... 28¢



Repair Forks

Fit any size bicycle; 20, 22 or 24-inch frame. Made of best steel tubing with forged crown. Stems 8¾ inches long, 5 inches of which is threaded. Can be cut off easily to required length. Diameter of stem, 1 inch; 24 threads to inch. Each fork fitted with cone for head fittings and screw for attaching mudguard. Shipping weight, 3 pounds.

60 C 3431—Anti-rust finish.... $1.85

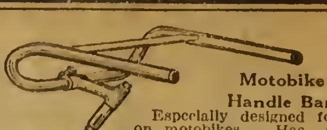
60 C 3432—Highly nickel-plated. $2.65

Axle Sets

Fit any bicycle hub. Complete with two adjusting cones, two nickel nuts and washers.

60 C 3895—Front Axle Set. Sizes, 5/16 inch. Length, 4¼ inches .... 18¢

60 C 3896—Rear Axle Set. Size ⅜ inch. Length, 6 inches .... 22¢

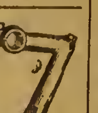


Motobike Handle Bar

Especially designed for use on motobikes. Has attractive, racy appearance. Reinforced by cross bar, nickel plated. Width, 21 inches. Extension type; steel expander stem. Shipping weight, 4 pounds.

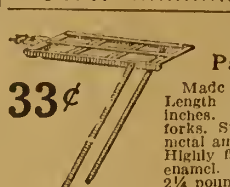
60 C 3445 .... $1.79

Handlebar Extension



Nickel plated. Size ⅞ inch; 2½ inch forward extension. Complete with expander bolt and plug. Very strongly made. Shipping weight 15 ounces.

60 C 3717 .... 39¢



33¢

Bicycle Package Carrier

Made of strong flat steel. Length 13 inches; width 7 inches. Attaches on rear forks. Supports made of flat metal and fasten to rear axle. Highly finished in black enamel. Shipping weight, 2¼ pounds.

60 C 3385 .... 33¢

Handy Package Carrier

Handy for lunches. Will fit any bicycle head. Held securely by straps. Simple to adjust, basket always carries level. Shipping weight, 2½ to 4 pounds.

Number	Size	Each
60 C 3420	13x 8x4¾ inches	75¢
60 C 3421	15x10x4¾ inches	85¢
60 C 3422	18x13x6 inches	95¢

Wire Mesh Package Basket

Will not sag. Will not rust. Has supports for attaching to front axle. Ship. weight, 6 pounds. Size 18 by 13 by 6 inches.

60 C 3404 .... $1.15

18¢

Best Quality Rubber Grips

Fit any ⅞ standard bar. Length, 6 inches. Shipping weight, per pair, 8 ounces.

60 C 3701—Black. Per pair .... 18¢

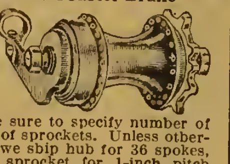
60 C 3702—Red. Per pair .... 22¢

Bull Dog Grips

Fit the band. Length, 5½ inches. Leather covered. Shipping weight, per pair, 6 ounces.

60 C 3708—Per pair .... 28¢

New Departure Coaster Brake



Easily attached by anyone. Drilled for 28 or 36 spokes with 8 or 9 tooth sprockets for 3/16 by 1-inch pitch chain. Be sure to specify number of spokes and size of sprockets. Unless otherwise instructed we ship hub for 36 spokes, with a 9-tooth sprocket for 1-inch pitch chain. Shipping weight, 3 pounds.

60 C 3370 .... $4.35

Spokes and Nipples

Prices quoted are for spokes complete with nipples and rim washers. Shipping weight, per dozen, 4 ounces.

60 C 3901—Standard size, 12 inches for 28-inch wheels. Per dozen .... 15¢

60 C 3902—Juvenile size, 11⅛ inches. Spokes for 26 inches wheels. Per dozen............ 15¢

60 C 3903—Juvenile size, 10⅛ inches for 24 inch wheels. Per dozen.................. 15¢

Nipple Grip

60 C 3897—Nipple Grip for tightening any size nipple. Shipping weight, 2 ounces ... 7¢

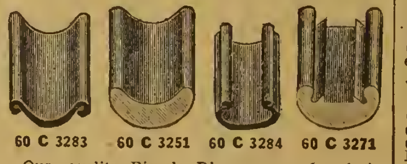
New Departure Hubs

Turned from solid bar of steel. Both front and rear have 36 holes. Shipping weight, 1½ and 2¼ pounds.

60 C 3376—Front hub .... $ .74

60 C 3378—Rear hub 1.95

Bicycle Rims



60 C 3283 60 C 3251 60 C 3284 60 C 3271

Our quality Bicycle Rims are made of the best grade of materials well finished and dependable for service and satisfaction.

The wood rims are made from one piece of high grade selected and seasoned Rock maple. Finely finished. The metal rims are made of high grade steel finely finished in Aluminum color. Rims for 28-inch tires are drilled with 36 holes; for 26 and 24-inch tires are drilled with 28 holes. Shipping weight, 2 pounds.

Article Number	For Type of Tire	Tire Size Inch	Made of	Finish	Each
60 C 3251	Cement	28	Wood	Natural	85¢
60 C 3253	Cement	28	Wood	Black with red center	98¢
60 C 3255	Cement	28	Wood	Aluminum	
60 C 3271	Clincher	28	Wood	Natural	
60 C 3283	Cement	28	Steel	Aluminum	65¢
60 C 3284	Clincher	28	Steel	Aluminum	72¢
60 C 3276	Cement	26	Wood	Natural	85¢
60 C 3275	Cement	24	Wood	Natural	

Electric Headlight Outfit

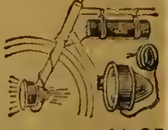
A snap of the switch throws on a bright beam of light, instantly without trouble. Only one dry cell needed. Neither wind nor rain can put it out. Lamp fastens upon handlebars. Battery container fastens to frame. Has 3-inch bullseye lens. Shipping weight, of outfit, 3 pounds.

63 C 2042—Without battery $1.65

63 C 2501—Dry cell battery. Shipping weight, 3 pounds .... 37¢

63 C 2301—Extra 1½ volt bulbs. Shipping weight of three, 1 pound. 3 for .... 44¢

Combination Electric White Headlight and Red Taillight

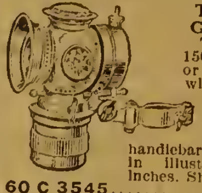


Uses one-cell dry battery. Outfit is complete with lamp, connecting wire attaching brackets and controlling switch. Shipping weight, 2 pounds.

63 C 2044—Without battery $1.85

63 C 2501—Dry cell battery .... .37

63 C 2301—Extra 1½ volt bulbs. 3 for.. .44



The Celebrated Solar Gas Lamp for Bicycles

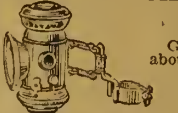
Throws a bright light about 150 feet. Can be turned up or down. Nickel plated metal, will not rust. Double convex bullseye lens, diameter 2½ inches. Brackets can be attached to extension handlebar stem only, as shown in illustration. Total height, 7 inches. Shipping weight, 2½ pounds.

60 C 3545 .... $3.75

Calcium Carbide

To be used with bicycle and motorcycle gas lamps. Shipping weight, per can, 2½ pounds. Not mailable.

60 C 8796—2-pound can........ 26¢

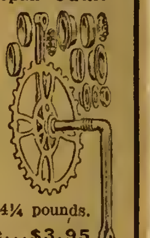


Oil Lamp

Gives steady light. Burns about 10 hours on one filling. Will not jolt out; 2¾-inch plain convex lens. Green and ruby jeweled side lens. Full nickel plated. Height, 5½ inches. Shipping weight, 1 pound.

60 C 3532 .... 98¢

Rollfast Crank Hanger Repair Outfit



Attaches to any bicycle originally fitted with one-piece hanger. Standard 26-tooth sprocket. For regular 3/16-inch width by 1-inch pitch chain. Complete set ball bearings with cups, cones and bushings. Made of drop forged steel, nickel plated and polished. With this outfit you can easily equip your bicycle with an up-to-date repair hanger, that will run smoothly and give entire satisfaction. Shipping weight, 4¼ pounds.

60 C 3875—Outfit complete... $3.95

Built-up Wheels

Rims of high grade rock maple. Complete with hub and axle to set into forks. Spokes are nickel plated and very strong. Hubs are fine quality nickel plated steel highly polished. Best steel bearings, extra hardened cups and cones are used. Rear wheels will be fitted with 9 tooth 3/16 inch wide sprocket for 1-inch pitch chain, on both plain hubs and coaster brakes unless otherwise specified. Average shipping weight 3½ pounds, with regular hubs; 4½ pounds with coaster brake. These wheels are used to replace broken wheels which are standard equipment. They fit properly and will give good service because they are made to wear well and run smoothly.

Wheels with Natural Finish Wood Rims

For 28-in. Cement Type Tires.

60 C 3205—Front. Each $2.69
60 C 3206—Rear. With Plain Hub 3.85
60 C 3207—Rear. With New Departure Coaster Brake. Each $6.85

For Juvenile Bicycles using 26-in. Cement Type Tires.

60 C 3215—Front. Each $2.69
60 C 3216—Rear. With Plain Hub 3.85
60 C 3217—Rear. With New Departure Coaster Brake. Each $6.85

For Juvenile Bicycles using 24-inch Cement Type Tires.

60 C 3210—Front. Each 2.69
60 C 3211—Rear. With Plain Hub 3.85
60 C 3212—Rear. With New Departure Coaster Brake. Each $6.85

Wheels with Black Rims, Red Center

For 28-inch Cement Type Tires.

60 C 3220—Front. Each $2.90
60 C 3221—Rear. With Plain Hub 4.30
60 C 3222—Rear. With New Departure Coaster Brake. Each $6.98

Wheels with Aluminum Finish Wood Rims

For 28-inch Cement Type Tires.

60 C 3225—Front. Each $2.90
60 C 3226—Rear. With Plain Hub..... 4.30
60 C 3227—Rear. With New Departure Coaster Brake. Each $6.98

Wheels with G. & J. Double Clinch Natural Finish Wood Rims

For 28-inch Tires.

60 C 3230—Front. Each $2.90
60 C 3231—Rear. With Plain Hub.... 4.30
60 C 3232—Rear. With New Departure Coaster Brake. Each $6.98

Wheels with Aluminum Finish Steel Rims

For 28-inch Cement Type Tires.

60 C 3277—Front. Each $2.45
60 C 3278—Rear with Plain Hub 3.95
60 C 3279—Rear. With New Departure Coaster Brake. Each $6.85

Wheels with Aluminum Finish G. & J. Style Steel Rims

For 28-inch Double Clincher Tires.

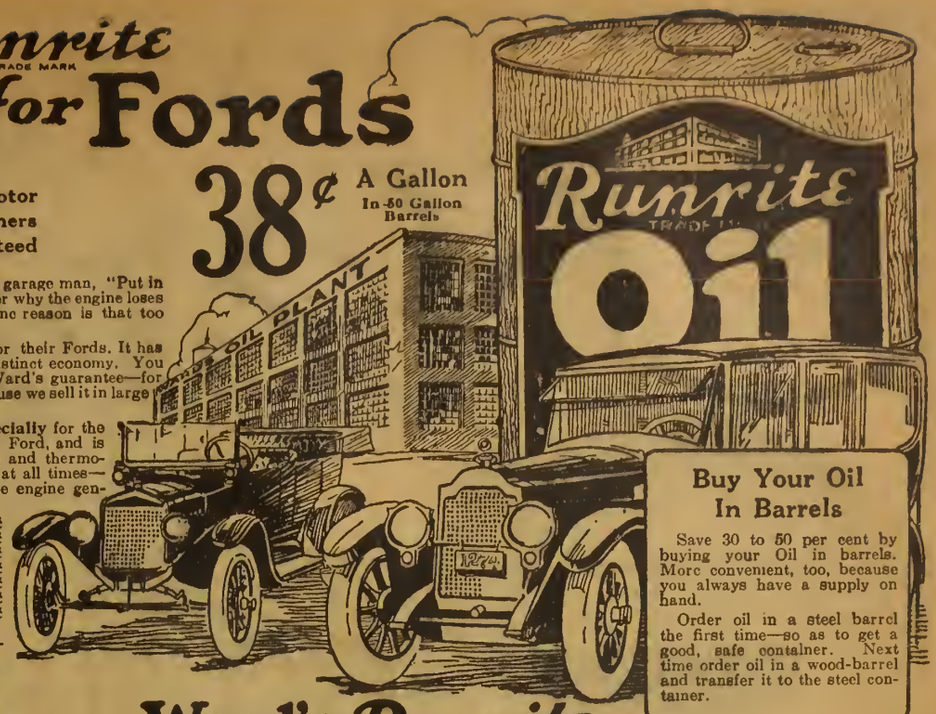
60 C 3280—Front. Each $2.50
60 C 3281—Rear with Plain Hub. 3.95
60 C 3282—Rear. With New Departure Coaster Brake. Each $6.90

Miles of service and satisfaction in the Bicycle Tires shown on Page 563

Ward's Runrite TRADE MARK Special Oil for Fords

Specially Designed for the High Speed Ford Motor
Proved in Service by Thousands of our Customers
Shipped from Our Oil Plant—Quality Guaranteed

38¢ A Gallon In 50 Gallon Barrels



Many Ford owners are satisfied to use "just any old oil." They say to the garage man, "Put in some oil"—without bothering to see what kind they will get. Then they wonder why the engine loses its "power," why it is so slow on pick-up and develops "knocks" so soon. One reason is that too often they are not using an oil made especially for the Ford motor.

Thousands of our customers have used and continue to use Runrite Oil for their Fords. It has proved itself a genuinely good and reliable lubricant. At our price, it is a distinct economy. You can buy Runrito Oil—in dustproof containors and backed by Montgomcry Ward's guarantee—for less than is usually asked for oils of doubtful quality. Our price is low because we sell it in large quantities and on our one profit basis.

Runrite is the right oil to make your Ford run right. It is blended especially for the high speed Ford motor. It is a medium oil, of the correct consistency for a Ford, and is extra heat resisting. It is especially suited to the splash lubricating system and thermo-syphon cooling system in the Ford engine. It lubricates well and thoroughly at all times—keeping a constant film of oil between pistons and cylinder walls, and helps the engine generate its maximum power with minimum gasoline.

275 C 1000—50-gallon wooden barrel. Per gallon ..... 38¢
275 C 1001—50-gallon steel barrel. Per gallon ..... 44¢
275 C 1002—30-gallon wooden barrel. Per gallon ..... 46¢
275 C 1003—30-gallon steel barrel. Per gallon ..... 50¢
175 C 1005—10-gallon can. Per gallon ..... 53¢
175 C 1006—5-gallon can. Per gallon ..... 55¢
575 C 1007—1-gallon can ..... 59¢
Shipped Promptly from Chicago

Buy Your Oil In Barrels

Save 30 to 50 per cent by buying your Oil in barrels. More convenient, too, because you always have a supply on hand.

Order oil in a steel barrel the first time—so as to get a good, safe container. Next time order oil in a wood-barrel and transfer it to the steel container.

Ward's Runrite Motorcycle Oil

A superior grade of oil, specially prepared for motorcycles for all weather and conditions. Number 1, for machines of the Indian type with force feed; Number 2, for machines of the Harley-Davidson type using splash system.

Number 1

175 C 1020—5-gallon can. Per gallon ..... 92¢
575 C 1021—1-gallon can .. 98¢
575 C 1023—1-quart can .. 35¢

Number 2

175 C 1025—5-gallon can. Per gallon ..... 92¢
575 C 1026—1-gallon can .. 98¢
575 C 1028—1-quart can .. 35¢
Shipped Promptly from Chicago

Ward's Runrite Transmission Oil

A special heavy oil specially blended for auto or tractor transmissions. Penetrates into innermost niches and circulates constantly.

275 C 1090—50-gallon wooden barrel. Per gallon ..... 30¢
275 C 1091—50-gallon steel barrel. Per gallon ..... 36¢
275 C 1092—30-gallon wooden barrel. Per gallon ..... 38¢
275 C 1093—30-gallon steel barrel. Per gallon ..... 42¢
175 C 1096—5 gallon can. Per gallon ..... 47¢
575 C 1097—1-gallon can .. 51¢
Shipped Promptly from Chicago

Ward's Runrite TRADE MARK Automobile Oils

42¢ A Gallon In 50-Gallon Barrels

Our highest grade Lubricating Oil, made especially for use in auto motors. Compares favorably with the best advertised brands on the market selling for much higher prices. Our laboratories make frequent tests to see that the quality is always uniform. Has been used by our customers for years. Sold only in sealed airtight containers, to keep the oil free from dust, dirt and foreign substances, which frequently cause unnecessary motor trouble. Choice of light, medium or heavy. Order the grade you have been using, or write us giving name and model of your car, and we will send you the correct oil.

Size	Light	Medium	Heavy	Per Gallon
50-gallon wood-barrel	275 C 1050	275 C 1060	275 C 1070	42¢
50-gallon steel-barrel	275 C 1051	275 C 1061	275 C 1071	48¢
30-gallon wood-barrel	275 C 1052	275 C 1062	275 C 1072	50¢
30-gallon steel-barrel	275 C 1053	275 C 1063	275 C 1073	54¢
10-gallon can	175 C 1055	175 C 1065	175 C 1075	57¢
5-gallon can	175 C 1056	175 C 1066	175 C 1076	59¢
1-gallon can	575 C 1057	575 C 1067	575 C 1077	63¢

Shipped Promptly from Chicago

See Shipping Weight of Oils and Greases at Bottom of This Page.

Ward's Runrite Gasoline Engine Oil

Specially recommended for correct lubrication of all makes of stationary and portable gasoline engines.

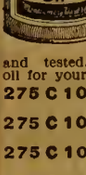
It is a medium bodied oil, ruby color, with a high fire test.

Forms a constant film of oil in the cylinders, and makes the engine produce maximum power from minimum fuel.

Where Ward's Runrite Gasoline Engine Oil is applied, the wear caused by friction is less apparent, the life of the engine is prolonged, and years of service added. Tried and tested. We know that this is just the right oil for your engine.

275 C 1030—50-gallon wooden barrel. Per gallon ..... 40¢
275 C 1031—50-gallon steel barrel. Per gallon ..... 46¢
275 C 1032—30-gallon wooden barrel. Per gallon ..... 48¢
275 C 1033—30-gallon steel barrel. Per gallon ..... 52¢
175 C 1035—10-gallon can. Per gallon .... 55¢
175 C 1036—5-gallon can. Per gallon ..... 57¢
575 C 1037—1-gallon can ..... 61¢
Shipped Promptly from Chicago

Steam Cylinder Oil



A medium bodied, dark green colored Oil, specially made for proper lubrication of steam cylinders and valves.

An oil so compounded that steam at high pressure will not wash it off the cylinders. A thin coat remains between the moving parts and prevents friction and wear. Recommended for any make steam cylinders.

275 C 1180—50-gallon wooden barrel. Per gallon ..... 50¢
275 C 1181—50-gallon steel barrel. Per gallon ..... 56¢
275 C 1182—30-gallon wooden barrel. Per gallon ..... 58¢
275 C 1183—30-gallon steel barrel. Per gallon ..... 62¢
175 C 1185—10-gallon can. Per gallon.. 65¢
175 C 1186—5-gallon can. Per gallon.... 67¢
575 C 1187—1-gallon can ..... 71¢
Shipped Promptly from Chicago

Denatured Alcohol

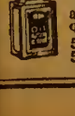
Not mailable. Prices are subject to market changes.
POISON—must not be taken internally.

For use in spirit lamps, percolators and thinning shellacs.

For use in non-freezing auto radiators—use 25 per cent alcohol at 2 degrees below zero, 40 per cent alcohol at 25 degrees below zero. Shipping weight, per gallon 12 pounds.

675 C 7657—1-gallon can. Per gallon.. ..... 90¢
175 C 7658—5-gallon can. Per gallon ..... 75¢

Pure Neatsfoot Oil



For use on all kinds of leather. It preserves and softens the leather and adds to its wearing qualities. Easy to apply.

575 C 7519—1-quart can..... $ .80
575 C 7518—1-gallon can..... 2.20

Ward's Runrite Tractor Oils

Another guaranteed product—the very best—refined from high grade crude oil. Has correct body, high fire test and in every way meets the needs of heavy tractor duty. Made to stand up under extreme heat generated in tractor engines. A first class lubricant. Made in Medium, Heavy and Extra Heavy. Order whichever grade you have been using—or tell us the model and make of your tractor and we will send you the grade best suited for its use.

Size	Medium	Heavy	Extra Heavy	Gal.
50-gal. wooden barrel	275C1100	275C1110	275C1120	68¢
50-gal. steel barrel	275C1101	275C1111	275C1121	74¢
30-gal. wooden barrel	275C1102	275C1112	275C1122	76¢
30-gal. steel barrel	275C1103	275C1113	275C1123	80¢
10-gallon can	175C1105	175C1115	175C1125	83¢
5-gallon can	175C1106	175C1116	175C1126	85¢
1-gallon can	575C1107	575C1117	575C1127	89¢

Shipped Promptly from Chicago

Reliable Cup Greases—For general machine use and for automobiles. Our own product. Our greases lubricate properly in any style grease cup.

Use **Soft** for pillow blocks or crossheads; **Medium** for general purposes (for auto hubs and cups); **Hard** for heavy open bearings and screw cups.

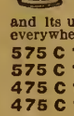
All automobile owners know that their cars wear out from excessive friction caused by insufficient oiling and greasing. Prolong the life of your car by using Ward's Reliable Cup Greases liberally.

Size Pail	Soft	Medium	Hard	Price
1-pound	575 C 1400	575 C 1405	575 C 1410	$ .18
10-pound	475 C 1402	475 C 1407	475 C 1412	1.20
25-pound	175 C 1403	175 C 1408	175 C 1413	2.90
50-pound	175 C 1404	175 C 1409	175 C 1414	5.25

Graphite Axle Grease is made from a graphite base that gives better lubrication and lasts longer. We freely recommend its use on bearings and pumps.

575 C 1490—1-pound box..... .12
475 C 1492—10-pound pail..... 1.00
475 C 1493—25-pound pail..... 2.25

Special Transmission Grease

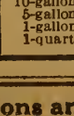


A high quality Grease used for auto transmissions and differentials. Semi-fluid. Will not harden. The proper grade for use on cars of every make.

A thoroughly tested grease which is being used by hundreds of our customers, and with great satisfaction.

475 C 1472—10 pounds in iron pail $1.25
475 C 1473—25 pounds in iron pail 2.75
175 C 1474—50 pounds in iron pail 5.00

Special Cup Grease for Fords

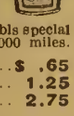


A special quality Cup Grease, made especially for use on Ford cars.

A good grease—one that is backed by Ward's guarantee; and its use is recommended to Ford owners everywhere.

575 C 1420—1-pound can.... $ .18
575 C 1421—5-pound can..... .65
475 C 1422—10-pound can..... 1.20
475 C 1423—25-pound can 2.90

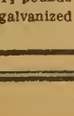
Fiber or Sponge Grease



A spongy, fibrous and heavy Grease which clings to the moving parts and lubricates well at all times. Reduces friction and thus prolongs wear. Will not leak. For this reason it is preferred to ordinary grease.

475 C 1462—10 pounds in iron pail $1.40
475 C 1463—25 pounds in iron pail 3.25
175 C 1464—50 pounds in iron pail 5.85

Differential Compound for Fords



A semi-solid compound which does away with rear axle "growling." When applying be sure to have the rear axle thoroughly cleaned (use a little kerosene); then pack in about 1½ pounds of this special compound. Renew about every 1000 miles.

575 C 1451—5-pound can.... $ .65
475 C 1452—10-pound can..... 1.25
475 C 1453—25-pound can..... 2.75

Shipping Weights of Oils

50-gallon wooden barrel	430 pounds
50-gallon steel barrel	420 pounds
30-gallon wooden barrel	260 pounds
30-gallon steel barrel	250 pounds
10-gallon can	85 pounds
5-gallon can	42 pounds
1-gallon	12 pounds
1-quart can	3 pounds

Shipping Weights of Greases

50-pound pail	65 pounds
25-pound pail	28 pounds
10-pound pail	12 pounds
5-pound can	10 pounds
1-pound can	1½ pounds

50, 25 and 10-pound pails are galvanized iron.

Ward's Runrite Harvester Oil

A heavy bodied dark green oil which may be used on all types of Harvesting machines.

It reduces friction and will not gum or corrode bearings.

An oil which will stand up under considerable heat.

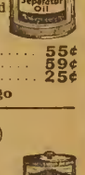
The machine to which Ward's Oil is applied regularly will work more smoothly and wear considerably longer.

Cuts off without a "string" when used from a squirt gun.

Used by hundreds of our customers who find it all that Ward's claim it to be.

275 C 1250—50-gallon wooden barrel. Per gallon ..... 44¢
275 C 1251—50-gallon steel barrel. Per gallon ..... 50¢
275 C 1252—30-gallon wooden barrel. Per gallon ..... 52¢
275 C 1253—30-gallon steel barrel. Per gallon ..... 56¢
275 C 1256—5-gallon can. Per gallon .... 61¢
575 C 1257—1-gallon can ..... 65¢
Shipped Promptly from Chicago

Cream Separator Oil



A non-viscous neutral oil which has been refined to meet the requirements of the various separators on the market today.

An oil that is light bodied and pale lemon colored, has a high fire test, flows freely and is practically stainless.

Just the oil for small motors or high speed machinery, such as sewing machines.

175 C 1206—5-gallon can. Per gallon ..... 55¢
575 C 1207—1-gallon can ..... 59¢
575 C 1209—1 quart can ..... 25¢
Shipped Promptly from Chicago

Machine Oil (Medium)

Our Machine oils are well known for their general all around efficiency, and also for the low price we ask for them.

One should always have some of this machine oil on hand. None of it will go to waste, for it is used in the home as well as on the farm or in the machine shop.

275 C 1150—50-gallon wooden barrel. Per gallon ..... 35¢
275 C 1151—50-gallon steel barrel. Per gallon ..... 41¢
275 C 1152—30-gallon wooden barrel. Per gallon ..... 43¢
275 C 1153—30-gallon steel barrel. Per gallon ..... 47¢
175 C 1156—5-gallon can. Per gallon ..... 52¢
575 C 1157—1-gallon can... 56¢
Shipped Promptly from Chicago

KEROSENE

Perfect Brand. Double refined Kerosene or Coal Oil. For incubators, oil stoves or lamps. Special quality, allowing the wick to be turned higher without smoking. Gives steady, uniform light or heat at all times. In barrels or smaller quantities.

Write Us for Prices

Write for suggestions and advice on any Lubricating Problems

Riverside Fabric Tires

$6.45
Road Grip
30x3

6,000 Miles Guaranteed

Driving Tread

Strong, Long Service Fabric Tires

Riverside Road Grip and Driving Treads are big, full size, first quality fabric tires made of brand new, fresh rubber and strong, tested fabric.

Experience is always the best teacher. We have directed the making of over 1,600,000 Riverside Tires and this experience has shown us how to make tires that will travel over the roughest roads and give greater service than many tires that cost several dollars more.

The treads of Riverside Tires are thick and exceptionally tough, so they often go thousands of miles before showing signs of wear. Hundreds of customers have written us that Riverside Fabric Tires give them far greater mileage than any other fabric they have ever used.

Remember this—Ward's guarantee on tires means **complete protection for you.** When you send us your order you know you will receive only dependable tires backed by 50 years of fair dealing and our Golden Rule Guarantee.

The Greatest Tire Guarantee for You

There are over 200 makes of tires on the market and they all look much alike. Every manufacturer and dealer talks about quality guarantees. Although many makers have eliminated the mileage guarantee, there still remain several who talk about it. But the greatest tire guarantee for you is **SATISFACTION**—that is what Ward's guarantee means to you.

We furthermore absolutely guarantee that Riverside Fabric Tires are full size—that the Riverside 10,000 Mile Cord Tires are oversize—that every tire has the full number of plies of fabric or cords accepted as standard and that every tire is positively **first quality.**

You know you can depend on Ward's guarantee, for it has stood the test for 50 years. Order your next tires from Ward's and prove that we give you **"Most for the Money."** We guarantee Satisfaction on a definite mileage basis.

One Small Profit

Riverside Tires are sold on a one profit basis. There are no jobbers' profits—no salesmen's or agents' profits—no expensive dealers' salesrooms. Last year we sold over 350,000 Riverside Tires direct to car owners.

All Riverside Tires are Quality Tires

That is why customers send us orders for three or four at a time. That is why we receive orders for three or four thousand Riverside Tires a day, which is considerably more than most dealers sell in a whole year. We absolutely guarantee quality in every way so that you know you will get **full service** for your money.

Less Than Dealers Pay

Think of buying absolutely first quality tires at **prices less than most dealers pay** for tires of equally dependable mileage guarantee. That is exactly what you do when you buy Ward's Riverside Tires. We sell more Riverside Tires direct to car owners than the total output of several factories which have hundreds of dealers. Our profit on each tire is very small—a great deal less than the profit the average dealer must add. We prefer to make a small profit on large sales rather than a large profit on small sales.

More Than 1,600,000 Riverside Tires Sold to Car Owners

Do This NOW

Several hundred thousand car owners buy Riverside Tires and keep on buying them. Surely this is one of the greatest proofs of quality. Especially is this true because Riversides are sold by mail. If they did not give greater service for less money, we could not expect our customers to order more.

Satisfactory service is the test that proves quality. It is the test that sells Riversides. We depend on the record of each Riverside to sell more. We do not have any salesmen to urge you to buy or tell you **this** or **that** about Riversides.

Riverside Tires have proven their worth in the hardest tests to which a tire can be given. They have made good with our customers on rough country roads—on mountain highways—on city streets—in the cold north and in the hot south. Each year our sales have increased and Riverside Tires now are among the best known on the market.

Low Parcel Post Rates

All sizes of Riverside Tires can be shipped into all zones by parcel post. In most instances the tires are delivered right to the customer's door—making it decidedly convenient to buy Riverside Tires by mail.

A 30 x 3½ Road Grip Tire, sent to any point in the first or second zones, costs only 18 cents for postage—a 30 x 3½ Cord Tire, only 21 cents. Even the larger sizes are mailed several hundred miles for a very small amount.

12,000 Miles—Still Going

"I put a Riverside Road Grip fabric tire on my car early last year and it has gone over 12,000 miles and is still good for several months' wear."

H. W. Hemphill, Lockport, Illinois.
Printed with Mr. Hemphill's permission.

Fabric Tire Prices

Riverside Road Grip Prices (Fabric)

Size	Article Numbers: Clincher Style	Article Numbers: Straight Side	Each	Average Ship. Wt. Lbs.
28x3	564 C 75	.....	$ 6.35	8½
30x3	564 C 76	.....	6.45	10
30x3½	564 C 77	.....	7.45	12
32x3½	.....	564 C 79	9.75	12½
31x3¾	564 C 78	Giant size for 30x3½ rims	9.45	13½
31x4	564 C 81	.....	10.50	14½
32x4	.....	564 C 82	12.25	15
33x4	.....	564 C 83	12.45	16
34x4	.....	564 C 84	13.25	17
32x4½	.....	564 C 87	17.45	20½
33x4½	.....	564 C 88	17.95	22½
34x4½	.....	564 C 89	18.25	23
35x4½	.....	564 C 90	18.50	24
36x4½	.....	564 C 91	18.95	25
35x5	.....	564 C 93	20.50	26

Riverside Driving Tread (Fabric)

Size	Article Numbers: Clincher Style	Article Numbers: Straight Side	Each	Average Ship. Wt. Lbs.
28x3	564 C 55	.....	$ 6.35	8½
30x3	564 C 56	.....	6.45	10
30x3½	564 C 57	.....	7.45	12
32x3½	.....	564 C 59	9.75	12½
31x4	564 C 61	.....	10.50	14½
32x4	.....	564 C 62	12.25	15
33x4	.....	564 C 63	12.45	16
34x4	.....	564 C 64	13.25	17
34x4½	.....	564 C 69	18.25	23
35x4½	.....	564 C 70	18.50	24

Prices on Riverside Tires and Inner Tubes are subject to change without notice. We always give you the benefit of our lowest prices, so you can send us your order at any time with the assurance that you will receive a square deal.

Why We Do Not Have Agents

Riverside Tires have given car owners such remarkably good service and our prices are so unusually low that hundreds of motorists have asked us for agencies to sell them in their territories. It has always been our policy to sell direct and share the savings with our customers. If we were to sell Riverside Tires through agents or dealers the tires would cost you more. We prefer to give our customers the benefit of every saving possible, **so we do not have any agents or dealers.** When you buy Riverside Tires you really become your own dealer and get quality tires practically at wholesale prices.

Riverside Cord Tires

$10.45
Riverside 10,000 Mile Cord 30x3½

10,000 Miles Guaranteed

Why Riverside Cord Tires Are Better

Ward's Riverside Cord Tires are full oversize construction. They are much larger than fabric tires and many other makes of cords. This makes a remarkable difference in the easy riding qualities due to the greater air capacity. Oversize also means greater mileage for you. The cords used in Riversides are unusually strong—much heavier and tougher than those used in fabric tires.

These features combined with the heavier treads make Riverside Cords much harder to puncture. Every cord is covered with rubber so no two strands touch each other. Thus each cord works freely with scarcely any friction. That is another reason why they ride so smoothly and heat up less, even at high speeds. Less air pressure is necessary when you use Riverside Cords. They act more as a cushion or shock absorber enabling you to travel over rough roads faster, more comfortably and with greater freedom from trouble.

Nine Miles Service for One Cent

Every Riverside Cord Tire is fully guaranteed to be absolutely **first** quality. That is where most guarantees stop. **But we guarantee more.** We guarantee our Riverside Oversize Cord Tires for 10,000 miles service. You are completely protected and know how much mileage your money buys.

You buy wheat by the bushel—you buy butter by the pound—you buy eggs by the dozen. Buy your tires from Ward's by guaranteed mileage.

Figure out your mileage cost so you know how much you will get for your money. Riverside 30 x 3½ Cord Tires cost you $10.45—this is about 1/10 of a cent per mile—or over 9 miles of guaranteed service for 1 cent. Other sizes are priced proportionately low. We invite a comparison of both our quality and prices. Both are backed up by our guarantee, which has stood the test for 50 years.

Accept This Offer You Don't Risk a Cent

Do This NOW

You don't take a single chance when accepting this offer to see Riverside Tires. It makes no difference where you live, we want you to see our Riverside Tires—either the 10,000-mile cord or 6,000-mile fabric—and compare them with others. If there is any question in your mind regarding their size, construction, weight or any other point that can be made clear by closely examining Riverside Tires, we want you to order at our risk as many as you need—right now. Inspect them thoroughly—put them alongside tires selling for $5 to $15 more—examine their sturdy construction—feel the thick, lively tread and convince yourself they are wonderful bargains. Simply send us your order in the regular way, with remittance. If, for any reason, you should feel that you don't want to keep them, send them back and we will refund your money and the transportation charges you have paid. **Remember, you must be satisfied.**

Save $5 to $15 on Each Tire

Compare Riverside Cord Tire prices with the prices of other well known tires and notice how much we save you on each tire—figure the big saving it will be on four tires. If you do not get a **greater** guarantee of mileage from an equally **responsible** firm, why should you pay more than Riverside prices? Why pay more for two tires than Ward's ask for **three**? Although we guarantee Riverside Cords for 10,000 miles, hundreds of customers report 16,000, 17,000, 20,000 miles and even longer service from them.

68,000 Miles From Four Riverside Cord Tires

"I am using four Riverside Cords, size 34x4, and each one has gone over 17,000 miles. They have given me greater service and less trouble than any tires I have ever used. My next tires will be Riverside Cords."

R. R. Fross,
R. F. D. 2, Tinley Park, Ill.
Printed with Mr. Fross' permission.

Easiest Way to Buy Tires

Did you ever stop to think that the tires you buy locally were probably ordered by mail? In fact, there are many firms who sell only by mail to dealers only. Selling by mail was originated by Montgomery Ward & Co., just 50 years ago. Today, the habit is growing daily. But, why should you pay an extra profit on tires to have some one else order them for you when you can buy fully guaranteed tires, direct from Ward's at a big saving. Ordering by mail from Ward's is about as easy and simple as using your telephone.

$9.75 Guaranteed 7,500 Miles

30x3½ Standard Riverside Cord Tires

For those who wish the very best in service and the greatest riding comfort, we recommend our full over-size Giant 30 x 3½ Riverside 10,000-mile Cord Tires, No. 564 C 25, shown at the right. However, to meet the demand of owners of light cars who do not desire to invest the extra amount necessary to buy this big, oversize Giant Riverside Cord Tire, we have developed a new Standard Riverside 30 x 3½ Cord Tire guaranteed for 7,500 miles service. The measurements are the same as the standard 30 x 3½ fabric tire. It is built along the same lines as our oversize 30 x 3½ cord tire, with a new non-skid tread design. You will find this new Standard Riverside Cord the equal in size, construction and service of many cords sold at several dollars above our price. Shipping weight, each, 13 pounds.

564 C 24—Standard Riverside 30 x 3½ Cord Tire. Each $9.75

Cord Tire Prices

All Sizes are Straight Except 30x3½

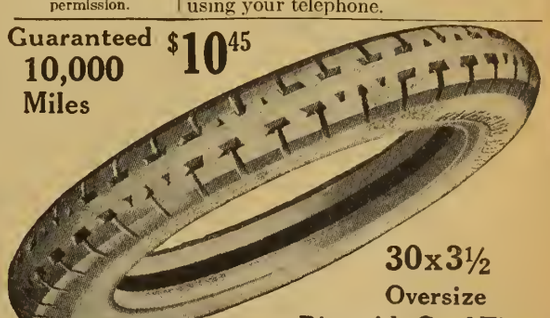
Size Inches	Rim Style	Article Number	Each	Av. Ship. Wt., Lbs.
30x3½	Cl	564 C 25	$10.45	16
32x3½	SS	564 C 26	16.95	22
31x4	SS	564 C 27	17.95	23
32x4	SS	564 C 28	18.25	24
33x4	SS	564 C 29	18.75	25
34x4	SS	564 C 30	19.25	26
32x4½	SS	564 C 31	23.25	32
33x4½	SS	564 C 32	23.75	33
34x4½	SS	564 C 33	24.45	34
35x4½	SS	564 C 34	25.25	34½
36x4½	SS	564 C 35	25.75	36
33x5	SS	564 C 36	29.45	38
35x5	SS	564 C 37	30.50	39
37x5	SS	564 C 38	31.75	43

Cl.—Regular Clincher. SS.—Straight Side.

Special New 30x3½ Straight Side Cord. Will not fit Clincher Rims. 564 C 23—Ship. wt., 16 lbs $12.85

Riverside Tire Prices Are Subject to Change Without Notice.

Guaranteed 10,000 Miles **$10.45**



30x3½ Oversize Riverside Cord Tires

For satisfactory service and unusual tire value this oversize Giant Riverside 30 x 3½ Cord guaranteed 10,000 miles is the best purchase you can make. Notice the big, heavy, thick tread. It is of the finest quality springy rubber, specially toughened so it will resist wear and not show marks of road use like ordinary tires. These fine points will make you all the more pleased with your selection of Riversides when you realize how smoothly and easily they roll over the road, making your car ride more comfortably, run more economically, and give you such freedom from tire worries as you have seldom before experienced. Shipping weight, each, 17 pounds.

564 C 25—30 x 3½ Cord Tire for clincher rims. Each $10.45

Riverside Brown Heavy Duty Tubes

TRADE MARK

$1.70 30x3

$1.95 30x3½

Stronger—Thicker—Heavier

Made of Pure Rubber

Riverside

Heavy Duty Tubes Help Make Tires Last Longer

Auto owners who have been driving for many years, know from experience that one of the best investments they can make is to be found in an Inner Tube of quality. These careful buying motorists are finding in Riverside Heavy Duty Inner Tubes the solution of their inner tube problem. Riversides hold pressure longer than usual, before requiring additional air.

New Low Prices on Heavy Duty Inner Tubes

Size, In.	Number	Each	Ship. Wt.
30x3	61 C 3214	$1.70	2 lbs.
30x3½	61 C 3216	1.95	2¾ lbs.
32x3½	61 C 3218	2.10	2⅞ lbs.
31x4	61 C 3220	2.50	3⅜ lbs.
32x4	61 C 3222	2.70	3⅜ lbs.
33x4	61 C 3224	2.90	3¾ lbs.
34x4	61 C 3226	3.00	3¾ lbs.
32x4½	61 C 3228	3.10	4½ lbs.
33x4½	61 C 3230	3.20	4½ lbs.
34x4½	61 C 3232	3.30	4⅝ lbs.
35x4½	61 C 3234	3.40	4⅞ lbs.
36x4½	61 C 3236	3.50	4⅞ lbs.
33x5	61 C 3238	3.55	5¼ lbs.
35x5	61 C 3240	3.60	5½ lbs.
37x5	61 C 3242	3.75	5¾ lbs.

Riverside Brown Heavy Duty Inner Tubes are absolutely the best grade obtainable—we guarantee this. Pure Para rubber, the finest known, is used in their construction. They are built thicker and stronger than any tube we have ever seen. The extra thickness is a big help in preventing pinches; and troubles from porousness are practically unknown. The additional strength allows them to stretch far more than ordinary tubes, so they are much more suitable for use in cord tires. Regardless of what tires you use, put in Riverside Heavy Duty Tubes and get more mileage and satisfaction. Only because we sell thousands of these tubes each week can we give such low prices for such remarkable quality.

Heavy Duty Tubes Best for Cord Tires

Due to the oversize construction of many cord tires and especially Riversides, it is advisable in every case to use our Riverside Heavy Duty Tubes. Being heavier than ordinary tubes they easily take the extra stretch necessary to fill the required space. Wise, careful buying motorists are finding Riverside Heavy Duty Inner Tubes and Riverside Cord Tires the ideal combination and the solution to their tube problem.

Riverside Standard Red and Gray Inner Tubes

TRADE MARK

$1.25 Red Size, 30x3

$1.19 Gray Size, 30x3

These are fine, strong, standard made Inner Tubes built by the "layer on layer" process which has proven wonderfully successful in doing away with trouble caused by slow leaks. This laminating process is a method of making inner tubes from thin sheets of fresh, strong, lively rubber rolled around a form in about the same way you would roll a sheet of paper around a pencil. After several layers have been rolled, one on top of the other, they are vulcanized together so firmly that if you should cut the tube in half it would appear to be one thick sheet of rubber.

The laminated construction makes Riverside Inner Tubes airtight—free from porousness—and is one of the chief reasons why they hold air for such a long time. Our sales of Riverside Inner Tubes are so great that it is necessary to have new shipments coming in almost daily from the factory; so you are always certain of brand new tubes that will give long service.

Red Inner Tubes

Size Inches	Article Number	Each	Shipping Weight
28x3	61 C 3152	$1.20	1⅝ lbs.
30x3	61 C 3154	1.25	1¾ lbs.
30x3½	61 C 3158	1.55	2¼ lbs.
32x3½	61 C 3162	1.65	2⅜ lbs.
31x4	61 C 3170	1.95	2⅞ lbs.
32x4	61 C 3172	2.00	3 lbs.
33x4	61 C 3174	2.05	3 lbs.
34x4	61 C 3176	2.10	3⅛ lbs.
32x4½	61 C 3179	2.50	3⅝ lbs.
33x4½	61 C 3181	2.60	3¾ lbs.
34x4½	61 C 3182	2.70	3⅞ lbs.
35x4½	61 C 3184	2.75	3⅞ lbs.

Gray Inner Tubes

Size Inches	Article Number	Each	Shipping Weight
28x3	61 C 3102	$1.15	1⅝ lbs.
30x3	61 C 3104	1.19	1¾ lbs.
30x3½	61 C 3108	1.40	2¼ lbs.
32x3½	61 C 3112	1.60	2⅜ lbs.
31x4	61 C 3120	1.75	2⅞ lbs.
32x4	61 C 3122	1.80	3 lbs.
33x4	61 C 3124	1.85	3 lbs.
34x4	61 C 3126	1.90	3⅛ lbs.

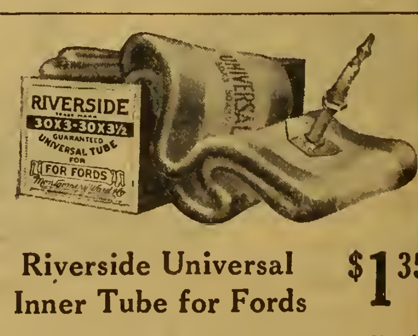
This Is Our Fiftieth and Greatest Year of Bargains

Special for Fords

Special Heavy Duty Inner Tube for Fords — $1.85

The very best tube for Ford owners. It can be used in either 30x3 or 30x3½-inch tires and will give wonderfully good service. The rubber is pure gum and the construction is exactly the same as in the Brown Riverside Heavy Duty Inner Tubes shown above. Shipping weight, each, 2½ pounds.

61 C 3244—Each $1.85



Riverside Universal Inner Tube for Fords — $1.35

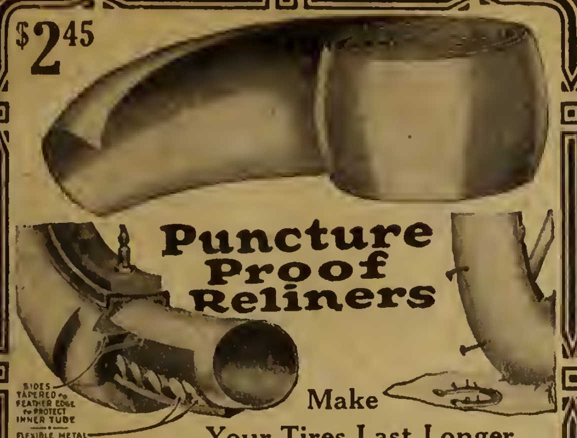
A big money and time saver for Fords because it fits either the front 30x3 or rear 30x3½ tires. On the rim side an extra layer of rubber makes the tube thicker and stronger at this point, which tends to prevent rim pinches. Shipping weight, each, 2 pounds.

61 C 3100—Each $1.35

Drive in comfort this winter with one of our warm Auto Robes. Page 652

Tire Supplies That Save Money and Eliminate Worry

$2.45



Puncture Proof Reliners

Make Your Tires Last Longer

Ward's Puncture Proof Reliners are made of specially toughened, lively elastic rubber with two layers of non-rusting, flexible metal plates firmly imbedded in the center. These two layers of plates are separated by rubber, one layer overlapping the other so they do not touch. The sides and ends of the reliner are tapered to a feather edge to protect the inner tube.

The rubber in the reliner gives additional strength to the casing and reduces the effect of the blow on the cord or fabric when you hit stones, railroad tracks and bridges. Tires often give thousands of extra miles' service for this reason. The metal plates prevent nails, tacks, wire and other sharp articles from reaching the tube, for when they strike the plates they bend over.

You Have More Pleasure

Think of the pleasure of going on a trip knowing that you will not have any annoyance, delay or disagreeable work because of punctures. You remember how punctures always seemed to come when you were in a hurry — how dirty you got changing tires. These Puncture-Proof Reliners will change all these conditions into memories. You will enjoy trips without thinking of the tires.

Punctureproof Reliner Prices

Article Number	Size Inches	Each	Shipping Weight
61 C 1375	30x3	$2.45	4¾ lbs.
61 C 1376	30x3½	2.95	5 lbs.
61 C 1377	32x3½	3.55	6 lbs.
61 C 1378	31x4	3.65	6½ lbs.
61 C 1379	32x4	3.75	7 lbs.
61 C 1380	33x4	4.25	7½ lbs.
61 C 1381	34x4	4.35	8 lbs.
61 C 1382	32x4½	4.25	9 lbs.
61 C 1383	33x4½	4.35	9¼ lbs.
61 C 1384	34x4½	4.65	9½ lbs.
61 C 1385	35x4½	4.70	9¾ lbs.
61 C 1386	33x5	5.45	10 lbs.
61 C 1387	35x5	5.50	10 lbs.

Fit All Tires

Our Punctureproof Reliners have long tapered ends and feather-edge tapered sides so they can be fitted to all makes of tires, cord or fabric. When tube is inflated they conform to the shape of the casing. Many motorists put them in brand new tires; and they can be satisfactorily used in old tires, also. When one tire is worn out you can put the reliner into another tire.

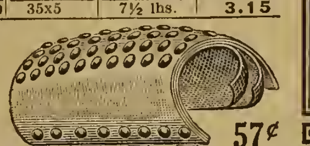
$1.25

Super Service Fabric Reliners Strengthen Weak Tires

Thousands of auto owners have found these Reliners a sure method of increasing tire mileage. Made of fine grade fabric layer on layer, completely saturated and bound by high grade rubber. Easy to put in casing, and being self-cementing they become practically inseparable.

Number	Size, Inches	Ship. Wt.	Each
61 C 1300	28x3	3 lbs.	$1.25
61 C 1301	30x3	3¼ lbs.	1.30
61 C 1302	30x3½	3½ lbs.	1.35
61 C 1304	32x3½	3¾ lbs.	1.53
61 C 1308	31x4	4¼ lbs.	1.75
61 C 1309	32x4	4½ lbs.	1.95
61 C 1310	33x4	5 lbs.	2.15
61 C 1311	34x4	5½ lbs.	2.30
61 C 1347	32x4½	5½ lbs.	2.45
61 C 1348	33x4½	6 lbs.	2.55
61 C 1314	34x4½	6¼ lbs.	2.65
61 C 1315	35x4½	6½ lbs.	2.75
61 C 1316	36x4½	7 lbs.	2.85
61 C 1349	35x5	7½ lbs.	3.15

Stretchless Hook-on Boot



57¢

The combination of a heavychrome leather studded tread and two layers of fabric make a strong neat repair for blowout. Always carry a couple of these boots. Shipping weights, 14 to 18 ounces.

For Clincher Tires

Article Number	Size	Each
61 C 1219	3 in.	57¢
61 C 1220	3½ in.	66¢

For Straight Side Tires

Number	Size	Each
61 C 1224	3½ in.	66¢
61 C 1225	4 in.	75¢
61 C 1226	4½ in.	95¢

Hook-on Tire Boot

A good substantial rubber and fabric Boot held to tire by improved riveted hooks. Will hold blowouts and protect inner tube—will not creep when properly applied. Regular clincher or straight side types. Shipping weights, 1 to 1¾ pounds.

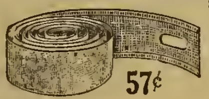
For Clincher Tires

Article Number	Size	Each
61 C 1231	3 in.	35¢
61 C 1232	3½ in	42¢

For Straight Side Tires

Number	Size	Each
61 C 1237	3½ in.	42¢
61 C 1238	4 in.	49¢
61 C 1239	4½ in.	65¢

Tire Flaps



57¢

For replacing old, wornout flaps. Prevents tube from coming into contact with rims — also prevents chafing. Made of several plies of fabric with beveled edges.

Number	For Tires—Size	Ship. Wt.	Each
61 C 1365	30x3½ or 31x4	1 lb.	57¢
61 C 1359	32x3½ or 33x4	1 lb.	57¢
61 C 1360	32x4 or 33x4½	1 lb.	57¢
61 C 1361	34x4 or 35x4½	1¼ lbs.	59¢
61 C 1362	32x4½ or 33x5	1½ lbs.	59¢
61 C 1363	34x4½ or 35x5	1½ lbs.	59¢
61 C 1364	36x4¼ or 37x5	1½ lbs.	59¢

Don't Throw Away Your Old Tires

Use Suction Grip Reliners

$2.15

These improved Reliners offer a quick, easy way to save considerable tire money. It is wasteful to throw half worn tires into the junk pile just because one little place became weak and the tire blew out. You wouldn't throw away a pair of shoes if the soles became weak in one place, would you? To put this reliner in a weakened tire is just as sensible as half-soling your shoes — and it will save you a great deal of money. Order two or three now and save your old tires.

Suction Grip Reliners make the tread so much thicker that it stops ordinary tacks before they reach the tube and usually bends small nails. If it were only for the freedom from punctures and blowout troubles, they would be worth more than the price we ask — but besides these features you have the big advantage of cutting down tire expenses and the pleasure of knowing that you are getting your money's worth from each tire. Suction Grip Reliners give a clean, smooth surface for the inner tube.

Made Similar to Tires

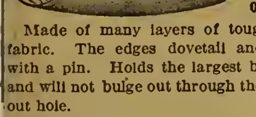
Suction Grip Reliners are made very much like regular tires except that they have not the heavy beads at the bottom. They are made over forms like a tire — have several layers of fabric and a cushion of rubber on the tread similar to regular tires. The edges at the bottom are tapered or thinned down so that they make a continuous smooth surface for the inner tube. We guarantee Suction Grip Reliners against defects in material or workmanship.

Improved Features

Suction Grip Reliners are a great improvement over the old style reliner. Little suction cups are built right into the rubber tread. They form a vacuum which holds the reliner in place, and prevents slipping, thus practically eliminating friction. This invention does away with flaps and wires, making it possible for you to slip this reliner right into the casing as easily as you would a tube.

Suction Grip Reliner Prices

Article Number	Size Inches	Shipping Weight	Each
61 C 1283	30x3	4¾ lbs.	$2.15
61 C 1284	30x3½	5 lbs.	2.50
61 C 1285	32x3½	6 lbs.	2.85
61 C 1286	31x4	6½ lbs.	3.15
61 C 1287	32x4	7 lbs.	3.25
61 C 1288	33x4	7½ lbs.	3.35
61 C 1289	34x4	8 lbs.	3.45
61 C 1290	32x4½	9 lbs.	4.00
61 C 1291	33x4½	9¼ lbs.	4.15
61 C 1292	34x4½	9½ lbs.	4.25
61 C 1293	35x4½	9¾ lbs.	4.35
61 C 1295	35x5	10 lbs.	4.75



Stronghold Blowout Boot

Made of many layers of tough tire fabric. The edges dovetail and lock with a pin. Holds the largest blowout and will not bulge out through the blowout hole.

Number	Size	Ship. Wt.	Each
61 C 1245	3 in.	9 oz.	49¢
61 C 1246	3½ in.	11 oz.	55¢
61 C 1247	4 in.	12 oz.	65¢
61 C 1248	4½ in.	13 oz.	69¢
61 C 1249	5 in.	15 oz.	85¢

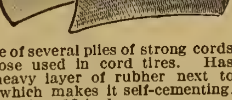
Double Flap Inner Patch

A serviceable Patch. Made of good grade fabric. Flaps held by tire bead prevent creeping and bulging. Suitable for clincher and straight side tires.

Number	Size	Ship. Wt.	Each
61 C 1200	3 in.	7 oz.	19¢
61 C 1201	3½ in.	9 oz.	22¢
61 C 1202	4 in.	10 oz.	28¢
61 C 1203	4½ in.	11 oz.	39¢

Cord Tire Patch

69¢

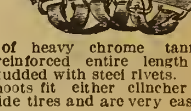


Made of several plies of strong cords like those used in cord tires. Has extra heavy layer of rubber next to casing which makes it self-cementing. Lengths, 12 to 18 inches.

Article Number	Size	Ship. Wt.	Each
61 C 1370	3½ in.	12 oz.	$ .69
61 C 1371	4 in.	14 oz.	.85
61 C 1372	4½ in.	16 oz.	1.00
61 C 1373	5 in.	18 oz.	1.20

Leather Studded Boot

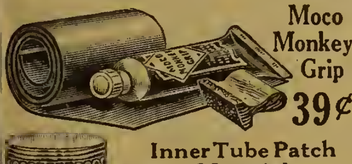
65¢



Made of heavy chrome tanned leather, reinforced entire length of tread. Studded with steel rivets.

These boots fit either clincher or straight side tires and are very easily put on.

Article Number	Size	Ship. Wt.	Each
61 C 1228	3 in.	12 oz.	65¢
61 C 1229	3½-4 in.	15 oz.	75¢
61 C 1230	4½-5 in.	16 oz.	95¢



Moco Monkey Grip

39¢

Inner Tube Patch Material

Outfit consists of rubber patch material, cement and rubber roughener. Patch stays on and will outwear inner tube. After being run a short time Moco patches firmly set to the inner tube and will not loosen. A child can do the job. Has screw-top container with instructions. Shipping weights, 8 and 10 ounces.

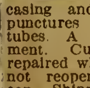
61 C 1563—Patch 3 by 9 inches......39¢
61 C 1564—Patch 3 by 18 inches....65¢

Rubber Patch Outfit

Outfit contains a strip of patching rubber, a tube of rubber cement and a handy rubber roughener. Patch sticks tightly; a splendid repair. Clean tube around puncture with gasoline, roughen surface and cut patch from sheet to proper size. Apply a coat of cement to the tube and moisten the raw side of patch with cement, then stick patch firmly to tube. Screw-top container. Shipping weights, 6 and 8 ounces.

61 C 1344—Patch 3 by 12 inches....21¢
61 C 1345—Patch 3 by 24 inches....29¢

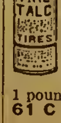
Michelin Mastic



For filling and cementing cuts in casing and repairing punctures in inner tubes. A plastic Cement. Cuts properly repaired with this will not reopen; 2-ounce can. Shipping weight, 5 ounces.

61 C 1480...26¢

Tire Talc



A good quality Talc. Prevents friction from sticking inner tube to casing. Free from grit. Sifter top carton. Shipping weight, 1 pound.

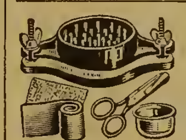
61 C 1483—............10¢

85¢

5-Minute Inner Tube Vulcanizer

No previous experience in vulcanizing required. With each Vulcanizer 12 patches are included, complete with chemically treated heating elements which do away with the necessity of using gasoline. There is no flame to burn the tube. Works in the wind, so you can readily put on sure-hold patches by the roadside. The whole outfit is small enough to slip in the pocket. Consists of vulcanizer, 12 patches and 12 heating discs. Shipping weight, outfit, 1 pound. Patches and discs, 8 ounces.

61 C 1415—Complete Outfit............85¢
61 C 1416—12 Heat Units with Patches..55¢



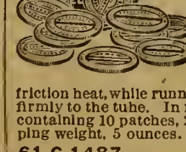
$1.49

Adamson's Inner Tube Vulcanizer

A quick acting, easily operated Vulcanizer for inner tubes only. Made of black Japanned iron with radiating pins to distribute the heat evenly. Polished vulcanizing face, 3½ inches square. Uses very little gasoline. Repair material, scissors and measuring cup included. Shipping weight of outfit, 3¼ pounds.

61 C 1410—Complete outfit.........$1.49

Cementless Patches

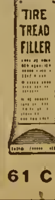


23¢

For repairing punctures in auto tubes. High quality Para rubber. When tube is placed in casing the friction heat, while running, cements patch firmly to the tube. In neat compact box, containing 10 patches, 2-inch size. Shipping weight, 5 ounces.

61 C 1487.................23¢

Challenge Tread Filler

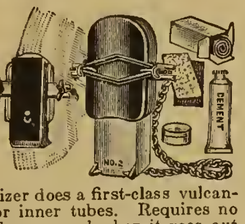


A semi-liquid Rubber Compound for mending small cuts in casings. Prevents dampness reaching the fabric, also sand blisters. Tube, 1 by 6 inches. Directions included. Shipping weight, 8 ounces.

61 C 1558.....21¢

Vulcanizers

Handy Vulcanizer

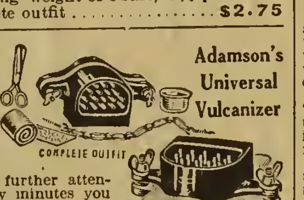


For Tires and Tubes $2.75

The reliable Handy Vulcanizer does a first-class vulcanizing job on either casings or inner tubes. Requires no watching. Merely light the burner and when it goes out the job is finished. The steam chamber contains about two ounces of water and is sealed tightly with a screw plug. The water will last about two years before needing refilling. Highly polished face, 5 by 3½ inches. Every part is strongly made of cast iron and steel, finished in white nickel and black. Outfit is complete, including repair gum and full directions. Shipping weight of outfit, 5¼ pounds.

61 C 1411—Complete outfit...............$2.75

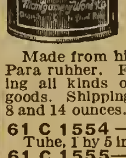
Adamson's Universal Vulcanizer



A well known, reliable Vulcanizing Outfit for vulcanizing casings and Inner tubes. Simply place patch on tube or casing, attach vulcanizer, put in gasoline with the measure furnished, light it, and no further attention is needed. In a few minutes you have a perfect repair. Will pay for itself quickly. Will not burn, scorch or injure when used as directed. Made of cast iron, Japanned black, 3½-inch polished face. Shipping weight of outfit, 3¼ pounds.

61 C 1401—Complete outfit....................$2.25

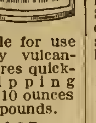
Rubber Patching Cement



Made from high grade Para rubber. For patching all kinds of rubber goods. Shipping weights, 8 and 14 ounces.

61 C 1554—Tube, 1 by 5 inches 10¢
61 C 1555—Half pint can....25¢

Vulcanizing Cement



Suitable for use with any vulcanizer. Cures quickly. Shipping weights, 10 ounces and 1¾ pounds.

61 C 1465—¼ pint can..15¢
61 C 1466—Pint can.....29¢

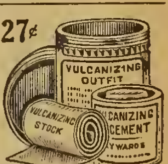
Fix-a-Cut Tire and Tube Repairer

A small amount of Fix-a-Cut Tread Filler applied to cut as soon as it is discovered, will prevent blowouts and lengthen the life of casings. Once set it becomes a part of the tire itself. Repairs punctures in inner tubes, cracks in hot water bottles, holes in boots or rubber hose as well as holes in tires. In neat screw-top can, which contains a 2-ounce can of Fix-a-Cut Compound, a 1-ounce can of special auto rubber cement and a rubber roughener, together with instructions. Shipping weight of outfit, 14 ounces.

61 C 1551—Complete outfit........33¢
61 C 1552—Fix-a-Cut only; 2-ounce can. Shipping weight, 5 ounces..............18¢

Vulcanizing Material Outfits

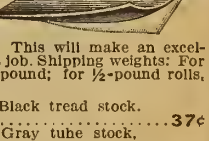
27¢



For use with steam, alcohol, gasoline or gas vulcanizers. In screw-top carton with directions. Shipping weight, of outfit, 10 ounces.

61 C 1476—Inner Tube outfit. Contains one can vulcanizing cement and one large sheet of 60 square inches tube stock..........................27¢
61 C 1477—Vulcanizing outfit. Contains a piece of 30-minute cure tread stock. Size, 60 square inches. One can........27¢
61 C 1478—Combination outfit. Contains a can of vulcanizing cement; one 30 square inch sheet of tube stock; one 30 square inch sheet of 30-minute cure casing stock..............................27¢

Rubber Vulcanizing Stock



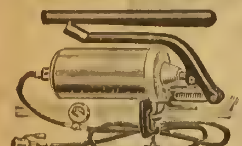
25¢ ¼-Lb. Rolls

Exceptionally fine Rubber Stock made especially for small vulcanizers. This will make an excellent and permanent job. Shipping weights: For ¼-pound rolls, ½ pound; for ½-pound rolls, 1 pound.

61 C 1457 — Black tread stock. ½-pound roll..........................37¢
61 C 1458 — Gray tube stock, ¼-pound roll..........................25¢
61 C 1462 — Combination tube stock, cured on one side; ¼-pound roll........29¢

Supplies for Fords are shown on Pages 579 to 585

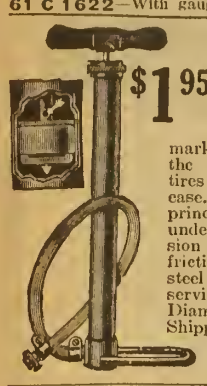
Pumps and Jacks
That Make Tire Changing an Easy Job



Improved Yankee
Easy Acting Tire Pump

A remarkable new type running board pump that is designed to give far greater pressure with less effort than the old style. It has a heavy brass no-leak cylinder, 5½ by 3 inches. The malleable iron base has a swinging clamp permanently attached. Collapsible handle allows pump to fit in very small space. Quick action hose connection on 7-foot hose. Shipping weight, 6 pounds.

61 C 1621—Without gauge.... ....**$2.95**
61 C 1622—With gauge..... ... . **3.60**



Rose Tire Pump
$1.95
Patented Valve High Pressure

This is one of the best known and most used pumps on the market. Its construction enables the operator to pump large size tires to a high pressure with surprising ease. It has a new patented valve principle, making it easy to operate under all pressures. Full compression at every stroke with but little friction. Made of 18-gauge seamless steel tubing which will stand hardest service. Length, over all, 23 inches. Diameters, 1¼ and 1½ inches Shipping weights, 3½ and 4 pounds.

61 C 1653—1¼-inch size **$1.95**
61 C 1650—1½-inch size **2.35**

Two Cylinder Tire Pump **$1.69**

We have reduced the price on this popular model to a new low mark. Made of seamless drawn tubing, highly polished, and will not rust. Length of barrels, 16½ inches. Diameter of large barrel, 1½ inches; of small one, ⅞ inch. Fits all tire valves. Shipping weight, 6 pounds.

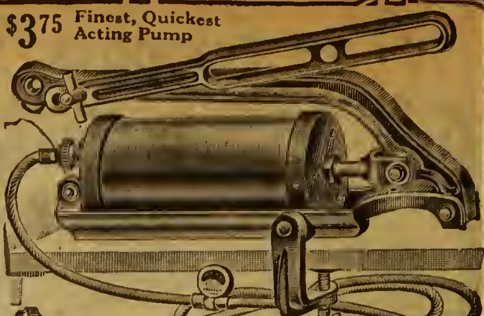
61 C 1654.....**$1.69**

Three Cylinder Tire Pump

A very powerful hand pump. Thoroughly tested before leaving the factory. Three cylinders of heavy seamless drawn tubing, highly polished and rustproof. Diameters of cylinders, ¾, 1¼ and 1¾ inches. Length, 18 inches. Length of pump, over all, 22 inches. Base is heavy casting, enameled. If you want a big, powerful, quick acting hand pump, get this one and inflate your tires with little exertion. Shipping weight, 9 pounds.

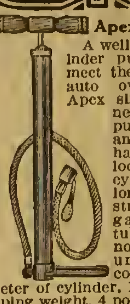
61 C 1652........**$3.25**

Inland IXL **$3.75** Finest, Quickest Acting Pump
Running Board Tire Pump



The finest, most substantial, easiest operating hand pump we have ever seen. A woman or child can pump up even large size tires with ease. A real friend when there's a tire to pump. Handle, opened, is 25 inches long—giving leverage many times greater than ordinary pumps. Can be quickly attached to either running board. Leakproof, seamless, polished steel cylinder, 3 by 6¼ inches; patented folding handle; folding clamp attached to the strong malleable iron base; fine quality leather plunger, specially treated. Pump folds up so it takes little space—3 by 4½ by 13½ inches. No loose parts to rattle or get lost. Built to last for many years. Complete with feet of good quality hose. Ship. wt., 9 lbs.

61 C 1683—Without gauge.... **$3.75**
61 C 1684—With gauge....... **4.25**

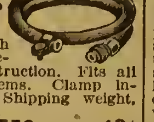


Apex Tire Pump

A well made single cylinder pump which will meet the needs of most auto owners. Special Apex slip-on hose connection — simply push it on valve and a turn of the handle locks or loosens it. The cylinder is 18 inches long and is constructed of heavy gauge seamless tubing which will not dent or bulge under ordinary conditions. Diameter of cylinder, 1¼ inches. Shipping weight, 4 pounds.

61 C 1649..........**$1.00**

Tire Pump Hose



24-inch hose, five-ply construction. Fits all valve stems. Clamp included. Shipping weight, 6 ounces.

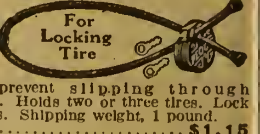
61 C 1750.......**43¢**

Apex Pump Connection

Place on valve, push the lever and it fits airtight with a no-slip grip. Release lever and it lifts off. Shipping weight, 2 ounces.

61 C 1742.......**19¢**

Rubber Covered Cable and Lock



Made of a spiral hardened steel cable, covered with rubber. Ends have knobs to prevent slipping through lock. About 3 feet long. Holds two or three tires. Lock furnished with two keys. Shipping weight, 1 pound.

61 C 3366............................**$1.15**

Tire Gauges

Schrader Tire Gauge

Pressed on valve stem, it registers pressure in tire. Indicator remains set at pressure in tire. To reset, simply push indicator down. Made of brass, nickel plated. Length, 2½ inches; diameter, ¾ inch. Leather carrying case. Shipping weight, 3 ounces.

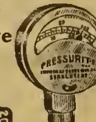
61 C 1702.............**$1.25**

Twitchell Tire Gauge

Positive lock stop holds the indicator so you can take it off the valve and still tell the pressure. Stays up till release is pressed. Very accurate. Made of nickel plated brass. Length, 3½ inches; diameter, ½ inch. Shipping weight, 3 ounces.

61 C 1710........**$1.25**

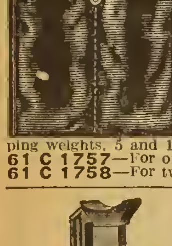
Tire Gauge



A good low priced gauge. Registers up to 120 pounds. Hand remains stationary at pressure indicated until reset. Made of brass, finely nickel plated. Height, 2 inches; diameter, 1½ inches; ¾ inch thick. Shipping weight, 4 ounces.

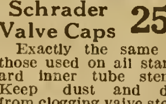
61 C 1701..........**69¢**

Inner Tube Cases



Inner tubes carried without protection are liable to become cut or injured. This case will prevent their chafing or being cut by sharp edged tools. Made of enameled fabric, fastened with snap button. Will hold any size tube up to 37 by 5. Shipping weights, 5 and 10 ounces.

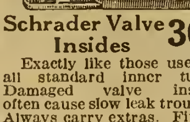
61 C 1757—For one tube.........**28¢**
61 C 1758—For two tubes........**42¢**



Schrader Valve Caps **25¢**

Exactly the same as those used on all standard inner tube stems. Keep dust and dirt from clogging valve stem, which causes leaks. In neat tin box. Shipping weight, per box, 4 ounces.

61 C 1700—
Per box of 5.....**25¢**

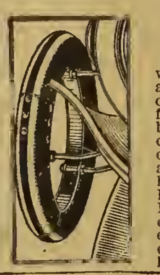


Schrader Valve Insides **30¢**

Exactly like those used in all standard inner tubes. Damaged valve insides often cause slow leak troubles. Always carry extras. Five in tin box. Shipping weight, per box, 4 ounces.

61 C 1703—
Per box of 5.........**30¢**

Tire Covers



White Stripe Covers

Strongly made tire covers with two neat white stripes around the center. Made of durable waterproof enameled fabric. Close with six snap buttons. Fit any make of plain or non-skid tire. To be used on tires mounted on demountable rims which have inside holders such as furnished on the Buick, Ford, Hupp, Chandler, Dodge, Maxwell and scores of other cars. Shipping weight, each, 1½ to 2½ pounds. For cord tires, see special oversize listing under price table.

Article Number	Size Inches	Each	Article Number	Size Inches	Each
61 C 1831	30x3½	$1.55	61 C 1838	34x4½	$1.95
61 C 1832	32x3½	1.60	61 C 1839	35x4½	2.00
61 C 1833	31x4	1.65	61 C 1847	33x5	2.00
61 C 1834	32x4	1.75	61 C 1841	35x5	2.15
61 C 1835	33x4	1.80	61 C 1842	36x5	2.25
61 C 1836	34x4	1.85	61 C 1843	37x5	2.35
61 C 1846	32x4½	1.85	61 C 1844	36x5½	2.50
61 C 1837	33x4½	1.90	....	......	....

Serviceable Tire Covers

Made of strong, serviceable waterproofed black enameled fabric. Very neat in appearance. For tires on demountable rims carried on special holders, as on Buick, Ford, Hupmobile, Chandler, Elgin, Paterson, Haynes, Lexington, Maxwell, Chevrolet, Dodge, Briscoe, Paige, Overland, Saxon, and others. Fit any make of plain or non-skid tire. Shipping weight, 1½ to 2½ pounds. For cord tires, see special oversize listing under price table.

Article Number	Size Inches	Each	Article Number	Size Inches	Each
61 C 1811	30x3½	$1.35	61 C 1818	34x4½	$1.70
61 C 1812	32x3½	1.40	61 C 1819	35x4½	1.75
61 C 1813	31x4	1.45	61 C 1827	33x5	1.85
61 C 1814	32x4	1.50	61 C 1821	35x5	1.95
61 C 1815	33x4	1.55	61 C 1822	36x5	2.00
61 C 1816	34x4	1.60	61 C 1829	34x5½	2.10
61 C 1826	32x4½	1.60	61 C 1824	36x5½	2.15
61 C 1817	33x4½	1.65	....	......	....

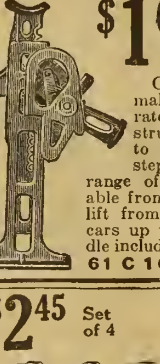
Cord Tires Take Oversize Covers and Chains
See Opposite Page for Chains

30x3½	Cords use 31x4	Tire Cover and Chains
32x3½	Cords use 33x4	Tire Cover and Chains
32x4	Cords use 33x4½	Tire Cover and Chains
33x4	Cords use 34x4½	Tire Cover and Chains
34x4	Cords use 35x4½	Tire Cover and Chains
32x4½	Cords use 33x5	Tire Cover and Chains
33x4½	Cords use 34x5	Tire Cover and Chains
34x4½	Cords use 35x5	Tire Cover and Chains
35x4½	Cords use 36x5	Tire Cover and Chains
36x4½	Cords use 37x5	Tire Cover and Chains
33x5	Cords use 34x5½	Tire Cover and Chains
35x5	Cords use 36x5½	Tire Cover and Chains

Giant Footlift Jack
$2.95

This big strong jack is designed to be used on cars with front and rear axles of different heights. Often if a car gets off the road or in the mud, a jack with only one height is useless, but with the Adjustable Footlift Jack the foot can be set at any height that the axle may be from the ground. Height of foot, 4¾ to 10¾ inches. Lift of top, from 11 to 17 inches. High grade in every respect. For all cars up to 5,000 pounds. Handle included. Shipping weight, 12 pounds.

61 C 1605. $2.95



$1.00 Double Duty Auto Jack

Constructed entirely of malleable iron. Speedy ratchet type. Simple construction, exceptionally easy to operate. Fitted with step bar, giving extra range of adjustments. Adjustable from 10 to 16 inches; footlift from 6 to 11 inches. For cars up to 3,600 pounds. Handle included. Ship. wt., 5½ lbs.

61 C 1613..........**$1.00**

Challenge Lifting Jack **85¢**

A winged handle engages the teeth on the wheel in a way that makes operation easy and quick. A slight movement of the handle brings it in contact with the teeth on the wheel. To reverse, simply move the side lever on the handle. Screw is of ⅝-inch steel, threaded to allow ample body to the thread in the malleable iron nut, causing it to wear longer and travel faster than similar jacks. Adjustment, 10 to 16 inches. For cars up to 2,000 pounds. Shipping weight, 4½ pounds.

61 C 1607.............**85¢**

Long Handle Jack

$1.85

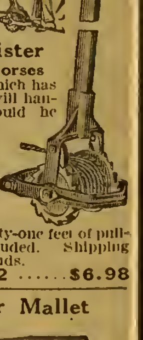
You won't have to crawl under the bumper, spare tire or body. Just open the handle, attach it and push jack under the car. Length of handle, open, 29 inches; closed, 16 inches. Screw type jack. Made of malleable iron. Shipping weights, 6 and 7¾ pounds.

61 C 1619—Plain top without extension; for cars weighing up to 3,000 pounds. Height, 9½ to 15 inches............**$1.85**
61 C 1620 — Extension type with 3-inch step, as shown; for cars up to 4,000 pounds. Height, 8½ to 14 inches when step is down; 11½ to 17 inches when step is raised. **$2.60**

$2.45 Set of 4 — Tire Saving Jacks for All Cars

Tires should not be allowed to stand on oily floors, nor on tire chains over night. Thousands of automobile tires are damaged in this way every season. When your car is not in use, lift it and give the tires a rest. By keeping the weight off the tires, the fabric and rubber are relieved of unnecessary strain so they will give a great deal more mileage. These jacks are made entirely of steel—no castings. Easily operated. Light, neat, simple and thoroughly dependable. Smooth surface where hub rests. Will last a lifetime. Pay for themselves by adding mileage to your tires. Shipping weights, per set, 12 and 14 pounds.

461 C 1907—For light cars, such as Ford, Chevrolet 490, Overland 4. Per set of 4.........................**$2.45**
461 C 1610—Adjustable to fit all machines.
Per set of 4.................................. **3.15**

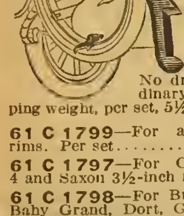


Auto Puller and Hoister
Has the Power of Four Horses

A simple, compact device which has a powerful pull and lift that will handle the heaviest cars. Should be carried by every tourist and motorist traveling on country roads. Just fasten to a stake, a tree or post and attach to car. A few pulls on the handle gets you out. Also handy to use for hoisting. It is self-locking. Twenty-one feet of pulling cable included. Shipping weight, 32 pounds.

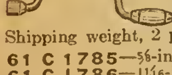
461 C 6462 ......**$6.98**

$2.95 A Set — Erp Spare Rim Tire Carriers



Always carry two extra inflated tires. You will enjoy your trips more, as two punctures will not mean the delay of pulling out the tube for patching. The Erp carrier consists of three especially designed holders which clamp over flange of your present carrier. No drilling—attached with ordinary monkey wrench. Shipping weight, per set, 5½ pounds.

61 C 1799—For all Dodge demountable rims. Per set.......................**$2.95**
61 C 1797—For Chevrolet 490, Overland 4 and Saxon 3½-inch rims. Per set.. **$2.95**
61 C 1798—For Buick, Briscoe, Chevrolet Baby Grand, Dort, Grant, Hupmobile, Mitchell, Oldsmobile, Oakland, Overland and Saxon 4-inch rims. Per set................**$2.95**



Demountable Rim Wrench **39¢**

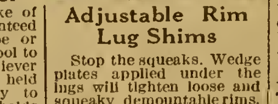
Popular type wrench for use on demountable rim bolts. Shipping weight, 2 pounds.

61 C 1785—⅝-inch size. . . ....**39¢**
61 C 1786—11/16-inch size. . . ....**39¢**
61 C 1787—¾-inch size.......... **39¢**

$2.69 Guaranteed Lawco Quick Action Rim Tool

Fits any size or make of split rim and is guaranteed not to injure rim, tube or casing. Simply adjust tool to the rim, push on center lever and rim is opened and held contracted until ready to replace. Automatic lock holds rim while you work on tire. To put tire on rim, place it in position and release tool. Folds up like a knife so it occupies very little space. Made of steel. Shipping weight, 5½ pounds.

61 C 1796......**$2.69**

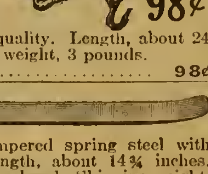


Adjustable Rim Lug Shims

Stop the squeaks. Wedge plates applied under the lugs will tighten loose and squeaky demountable rims. Fit all kinds and sizes of rim lugs. Go over the bolts with lugs and will not come off. Shipping weight, per set of six, 6 ounces.

61 C 1783—
Per set of 6........**19¢**

Tow Rope

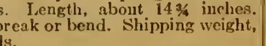


98¢

A strong, durable tow rope. Needed by every motorist who travels in the country. Rope is good quality. Length, about 24 feet. Shipping weight, 3 pounds.

61 C 6508................. **98¢**

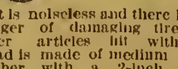
Tire Tool



Made of tempered spring steel with thin ends. Length, about 14¾ inches. Will not break or bend. Shipping weight, 1¼ pounds.

61 C 1788...................**17¢**

Rubber Mallet

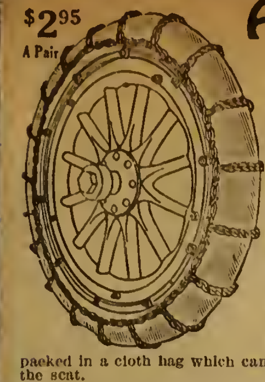


It is noiseless and there is no danger of damaging tires or other articles hit with it. Head is made of medium hard rubber with a 2-inch face. Length, over all, 12 inches. Shipping weight, 1 pound.

61 C 1774... .. ..**45¢**

Use Riverside Tires

Handy Vulcanizers for tires and tubes. Page 569



$2.95 A Pair

Anti-Skid Tire Chains

Heavy Duty Type

These Tire Chains will prevent many dangerous, costly accidents on wet roads, such as sliding into ditches, skidding into curbs or hitting other machines. They also enable you to travel through mud, sand and snow where it would be impossible for you to go without chains.

See table on Page 570 for sizes used on cord tires.

Heavy Duty Chains are designed to run free on the casing which is a very important feature. They will not cut the tires. The cross chains are made of special annealed wire stock which is hardened to give longer wear. Every pair is packed in a cloth bag which can be carried under the seat.

Article Number	Size of Tires	Per Pair	Ship. Wt. Lbs
61 C 6554	30x3½	$2.95	13½
61 C 6555	32x3½	3.25	14½
61 C 6556	31x4	3.50	14
61 C 6557	32x4	3.65	14
61 C 6558	33x4	3.95	15
61 C 6559	34x4	4.20	15½
61 C 6564	32x4½	4.25	16
61 C 6565	33x4½	4.50	17
61 C 6560	34x4½	4.60	17½
61 C 6561	35x4½	4.75	18
61 C 6562	33x5	5.25	20
61 C 6563	35x5	5.50	21
61 C 6566	36x5½	7.00	26

Drive in Safety
With the Aid of These Necessities

Genuine Boyce Motometers

$1.95

Placed on radiator cap. The Motometer indicator warns the driver of engine troubles before danger occurs. A necessity that should be on every water cooled car.

61 C 3613—Standard Model—Beautifully finished in black and nickel. Beveled plate glass crystal. Height, 3¾ inches. Width, 3⅜ inches. Shipping weight, 1½ pounds. Each....**$7.95**

61 C 3623—New Universal Model—Similar to large model. Height, 3¼ inches. Width, 2¾ inches. Shipping weight, 1¼ pounds. Each....**$5.85**

61 C 3624—New Universal for Overlands—Same size and style as 61 C 3623 with special fitting for all Overland and Willys-Knight radiator caps. Shipping weight, 1¼ pounds. Each....**$5.85**

61 C 3607—Motometer Junior—An efficient, reliable small model. Height, 3 inches. Width, 2¾ inches. Shipping weight, 1 pound. Each....**$3.95**

61 C 3601—Motometer Midget—Height, 2⅝ inches. Width, 2⅛ inches. Shipping weight, 6 ounces. Each....**$1.95**

Mud and Skid Chains

$2.95 A Set

Four to each rear wheel. Made with smooth surface, and will not injure tire. Leather loop fastens around spoke and will not mar paint. Adjustable. Set in cloth bag. Shipping weight, per set, 5 pounds.

61 C 6530—For 3 and 3½-inch tires. Set of 8....**$2.95**

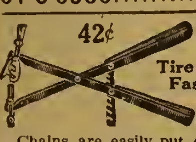
61 C 6531—For 4, 4½ and 5-inch tires. Set of 8....**$3.20**

Tire Chain Repair Pliers

52¢

Used in taking off or putting on cross chains, or in repairing side chains. Operates easily. Length, about 12¾ inches. Shipping weight, 1½ pounds.

61 C 6506....**52¢**

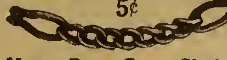


Tire Chain Fastener

42¢

Chains are easily put on with this handy tool even during a snow storm or in a pouring rain. You will never take the chance of running without chains if you have this tool in the kit. It pulls the chain ends together with one pressure. Shipping weight, 1 pound.

61 C 6512....**42¢**



5¢

Heavy Duty Cross Chains

For repairing and replacing Weed, Heavy Duty and other anti-skid cross chains when worn out or broken. Strong and easily attached. Average shipping weight, each, 6 ounces.

Number	Size	Each
61 C 6574	3½ inches	5¢
61 C 6575	4 inches	6¢
61 C 6576	4½ inches	7¢
61 C 6577	5 inches	8¢

Mud Hooks

If you are ever stalled in the mud or sand, two or three of these Hooks on each rear wheel will get you out in a very short time. May be put on wheels in deep mud. Made of iron, black enameled. Uses strap 1-inch wide. Straps not included. Shipping weight, each, 2 pounds.

61 C 6503—For 3 or 3½-inch tires. Each....**43¢**

61 C 6504—For 4 or 4½-inch tires. Each....**45¢**

61 C 6505—For 5 or 5½-inch tires. Each....**49¢**

Tire and Mud Hook Straps

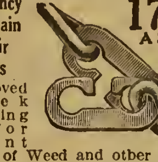
Used for attaching mud hooks, and in many other places. Have patent adjustable black Japanned buckles. Waterproof, tough and serviceable. Shipping weight, each, 8 ounces.

61 C 6509—1 by 36 inches. Each....**24¢**

61 C 6510—1 by 42 inches. Each....**27¢**

61 C 6511—1 by 48 inches. Each....**30¢**

Emergency Tire Chain Repair Links



17¢ A Set

Improved quick fastening links for instant repair of Weed and other tire chains. May be used on either cross or side chains. They will not come loose. Being specially hardened they generally outlast original chain. Shipping weight, set of 6 pairs, 5 ounces.

61 C 6549—Set of 6 pairs....**17¢**

Genuine Merchants' Anti-Skid Chain Tightener

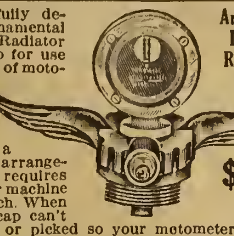
45¢ Pair

These Tighteners take up the slack, making chains fit snugly and neatly and helping to make them last longer. Merchant's tighteners allow the chains to creep as they should. Shipping weight, per pair, 10 ounces.

61 C 6572—For 30 and 32-inch wheels. Per pair....**45¢**

61 C 6573—For 33, 34 and 35-inch wheels. Per pair. **45¢**

Armstrong Lox-on Radiator Cap



$2.75

A beautifully designed, ornamental wing style Radiator Locking Cap for use with all sizes of motometers. Elegant nickel plated finish. Consists of a double cap arrangement which requires no drilling or machine work to attach. When locked the cap can't be removed or picked so your motometer is safe. This cap is steam, water and airtight, so it will not rust. Width from tip to tip, 8½ inches. Motometer not included. Shipping weight, 2½ pounds.

61 C 3603—Fits all Dodges, all Clevelands, and all Studebakers....**$3.95**

61 C 3604—Fits all Chevrolet 490's and Maxwells 1915 to 1918....**$3.95**

61 C 3605—Fits all Buicks, all Nash (684) and all Oaklands from 1916 to 1922....**$3.95**

61 C 3602—Special 8-inch size for all Fords.... **2.75**

Beautiful Moto Wings

65¢

Beautifies the radiator and the appearance of the front of a car more than any accessory we have ever seen. Held by motometer or other radiator cap attachments. Made of bronze and heavily nickel plated. Measurements are from tip to tip of the wings. Shipping weight, 14 ounces and 1 pound.

61 C 9531—10-inch size....**65¢**

61 C 9530—14-inch size....**79¢**

"T" Handle Radiator Cap

95¢

This beautifully finished "T" handle Radiator Cap is highly ornamental and much more convenient than the old style cap. You will not burn your fingers. Made of brass, nickel plated. If you want to use a motometer a hole can easily be drilled through the cap, as it has a small countersink on the inside for starting the hole. Length, tip to tip, 7¾ inches. Shipping weight, 1½ pounds.

61 C 3371—Fits Chalmers, 1915–22; all Haynes, all Jordans; all Mitchells; Saxon, 6 cylinder....**95¢**

61 C 3372—Fits Allen, 1921–22; all Chandlers; Elgin, 1918–22; Paige, 1915–22....**95¢**

61 C 3373—Fits all Dodge cars; all Studebakers; all Clevelands....**95¢**

61 C 3374—Fits all Buicks; all Nash; Oakland, 1916 to 1922....**95¢**

61 C 3375—Fits Cadillacs, 1917–22; all Dorts; Essex, 1920–22; all Grants; all Hudsons....**95¢**

Special. We can also furnish "T" Handle Radiator Caps for all other cars except the Willys-Knight and Overland. Mention make, year and model of car and order by catalogue number **261 C 3378**, allowing 95¢ and postage.

Shipped from factory in Chicago, Ill.

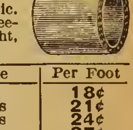
Motometer Lock

$1.25

Drops down through the filler hole and opens up in such a manner that it cannot be taken out. Attached to the motometer by special fittings. Will fit all cars except Willys-Knight, Overland, Stearns and Nash. Holds motometer and cap while filling radiator. Shipping weight, 8 ounces.

61 C 3587....**$1.25**

Radiator Hose



Made of good rubber and fabric. Furnished only in one, two or three-foot lengths. Average shipping weight, per foot, 1 pound.

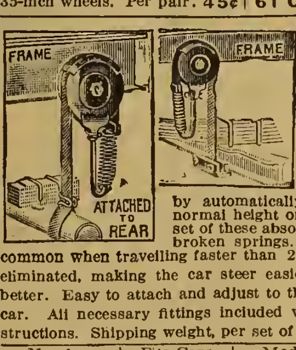
Article Number	Inside Size	Per Foot
61 C 9214	1 inch	18¢
61 C 9215	1¼ inches	21¢
61 C 9216	1½ inches	24¢
61 C 9217	1¾ inches	27¢
61 C 9218	2 inches	29¢
61 C 9219	2¼ inches	33¢
61 C 9220	2½ inches	39¢

Adjustable Hose Clamp

Made of galvanized steel that fits different sizes of hose. Just clamp slotted part over catch of the nearest size and tighten bolt. Shipping weight, each, 3 ounces.

Article Number	For Hose with Inside Diameter	Each
61 C 9198	⅞ to 1¼ inches	6¢
61 C 9199	1¼ to 2¼ inches	7¢
61 C 9200	2¼ to 3¼ inches	8¢

Smooth Action Rebound Absorbers



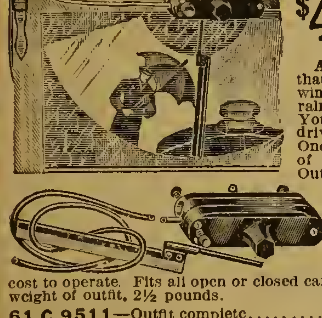
Prevent violent recoil after striking bumps and ruts and enable you to travel over roughest roads in comfort. You will also note a remarkable increase in mileage from your tires. Prevents spring breakage by automatically stopping rebound at the normal height of the car on its springs. One set of these absorbers costs less than a pair of broken springs. Side swaying, which is so common when travelling faster than 25 miles an hour, is almost eliminated, making the car steer easier and hold to the road better. Easy to attach and adjust to the weight of your car. All necessary fittings included with complete instructions. Shipping weight, per set of four, 20 pounds.

$17.50 A Set

Number	Fits Cars	Models	Set of 4
461 C 4070	Hupp	1918–19–20–21	$17.50
461 C 4070	Elgin	1919–20–21	17.50
461 C 4070	Overland	Four	17.50
461 C 4070	Liberty	1919–20–21	17.50
461 C 4071	Maxwell	All models	17.50
461 C 4072	Oakland	1915-1919 incl.	17.50
461 C 4073	Oakland	1920–21	17.50
461 C 4073	Oldsmobile	1919–20–21	17.50
461 C 4073	Essex	1920–21	17.50
461 C 4074	Dodge	1917-1921 incl.	17.50
461 C 4074	Chandler	1920–21	17.50
461 C 4074	Buick	1919–20–21	17.50
461 C 4074	Auburn	1920–21	17.50
461 C 4074	Willys-Knight	1920–21	17.50
461 C 4075	Chevrolet	All; rear only	8.75
461 C 4076	Studebaker	All models	17.50

Absorbers For Cars Not Shown at the Left

We can furnish Rebound Absorbers for all cars. If your car is not listed here, order by number 261 C 4087, allowing $17.50 for set of 4, giving name and model of car. If you want absorbers for the rear only, order under number 261 C 4088, allowing $8.75 per set of 2. **Special sets shipped from factory in Chicago.**



Automatic Self-Wiping Windshield Cleaner

$4.95

An excellent safety device that automatically keeps the windshield clean when it is raining, snowing or sleeting. You have both hands free for driving and handling levers. One of the best helps we know of for preventing accidents. Outfit consists of a sturdy vacuum motor which is connected by a hose to the vacuum tank or intake manifold. It is always ready. Simply turn the Button and the wiper swings back and forth. No cost to operate. Fits all open or closed cars. Black finish. Shipping weight of outfit, 2½ pounds.

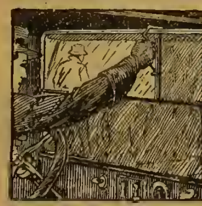
61 C 9511—Outfit complete....**$4.95**

Safe-T Windshield Cleaner

95¢

This handy Cleaner is fastened over the top of the windshield by a clamp on open cars and by drilling a hole through the frame on closed cars. Swings on a pivot and applies pressure evenly the entire length of the squegee. Made of steel, black enameled. Shipping weight, 12 ounces.

61 C 9527....**95¢**

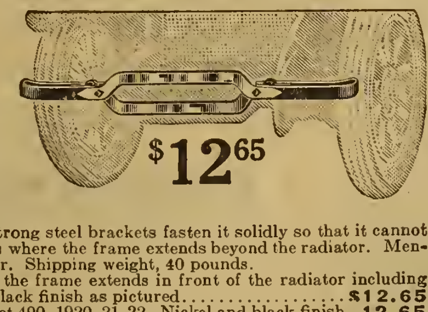


See-Safe Windshield Cleaner

Cleans the upper part of the windshield by sliding across entire length, or cleans one spot by pivoting in a stationary position. Instantly attached. Fits all open cars. Black enamel finish. Shipping weight, 8 ounces.

61 C 9519..**42¢**

Duplex Resilient New Style Spring Bumper



$12.65

The finest looking, best designed, strong, double bar Spring Bumper we have ever seen offered near this price. The wide spread of the two center bars prevents bumpers on other cars locking under or over it. The steel used in the Duplex is especially tempered so that even the hardest bump will not break it. Special strong steel brackets fasten it solidly so that it cannot shake. Brackets furnished fit all cars where the frame extends beyond the radiator. Mention name, model and year of your car. Shipping weight, 40 pounds.

161 C 4196—Fits all cars where the frame extends in front of the radiator including Dodge cars up to 1920. Nickel and black finish as pictured....**$12.65**

161 C 4197—Special for Chevrolet 490, 1920–21–22. Nickel and black finish **12.65**

161 C 4198—Special for Dodge 1920–21–22. Nickel and black finish.... **12.65**

Radiators for Dodge Maxwell and Chevrolet 490

$24.95

Excellently designed, durable, sure-cool Radiators with honeycomb zig zag core made of brass. **We guarantee them to withstand freezing without breaking.** The shell is made of one piece pressed steel with handsome black enamel finish. Latest style shell furnished for all Maxwells. Average shipping weight, about 45 pounds.

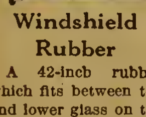
Shipped from Factory in Chicago

261 C 6943—For Chevrolet 490, 1918–19–20–21–22, pump system.... **$24.95**

261 C 6945—For Dodge, 1917 to 1922 **$36.45**

261 C 6946—For Maxwell, 1916-17-18-19 **36.45**

261 C 6947—For Maxwell, 1920–21 .. **36.45**

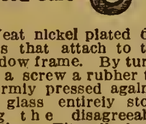


Windshield Rubber

A 42-inch rubber which fits between top and lower glass on the windshield of any car. Keeps out rain and snow. Shipping weight, 11 ounces.

61 C 9513....**19¢**

Window Anti-Rattlers for Closed Cars

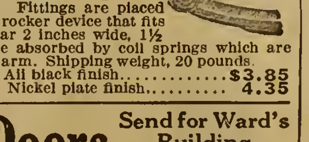


Neat nickel plated devices that attach to the window frame. By turning a screw a rubber tip is firmly pressed against the glass entirely stopping the disagreeable rattling. Fits all closed cars. Nickel plated. Shipping weight, per pair, 6 ounces.

61 C 3648—Per pair....**43¢**

Universal Channel Bar Bumper

With Special Attachments



$3.85

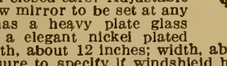
Has heavy channel bar. For all automobiles having drop front spring hangers which are not enclosed by aprons extending within 5 inches of end of frame. Fittings are placed directly on frame with a rocker device that fits any frame extension. Bar 2 inches wide, 1½ inches deep. Shocks are absorbed by coil springs which are enclosed in the attaching arm. Shipping weight, 20 pounds.

461 C 3475—Front. All black finish....**$3.85**

461 C 3476—Front. Nickel plate finish.... **4.35**

Garage Doors Send for Ward's Building Material Book

Windshield Mirror



$1.49

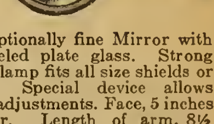
A beautiful new style Mirror for either open or closed cars. Adjustable brackets allow mirror to be set at any angle. It has a heavy plate glass mirror with a elegant nickel plated frame. Length, about 12 inches; width, about 2¾ inches. Be sure to specify if windshield has oval or square top rod or if for closed car. Special fittings for each type. Shipping weight, 1⅞ pounds.

61 C 7074—For open cars. Oval top shield bar....**$1.49**

61 C 7075—For open cars. Square top shield bar....**$1.49**

61 C 7076—For closed cars. Both styles **1.49**

Auto Mirror Beveled Plate Glass



$1.90

An exceptionally fine Mirror with heavy beveled plate glass. Strong universal clamp fits all size shields or brackets. Special device allows numerous adjustments. Face, 5 inches diameter. Length of arm, 8½ inches. Shipping weight, 2¼ pounds.

61 C 6709—Black finish. **$1.90**

61 C 6710—Black and nickel finish... **1.95**

Supplies for Fords are shown on Pages 579 to 585

Why It Pays You to Put in New Piston Rings

The owner who leaves old worn piston rings in his motor, often wastes more money and time in a month than the cost of an entire new set of Nu-Power Three-Piece Rings.

Worn rings waste gasoline; they waste lubricating oil; they waste power; they waste time required to keep spark plugs clean, and they waste money because the valves have to be ground and carbon cleaned more frequently. Our three-piece piston rings often make old motors run better than they did when new. If you have trouble with sooty or oily spark plugs, put in these new rings—right now.

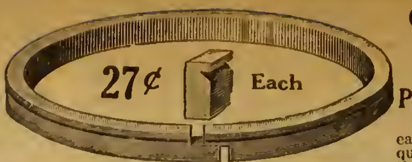
Nu-Power Three-Piece Piston Rings

Give More Power—Save Gasoline and Oil

We have made tests with several leading piston rings and have found the Three-Piece Ring shown above to be exceptionally reliable under the most trying conditions. This is an excellently constructed piston ring. Motors that failed to pick up quickly—that stalled on hard pulls—and used far too much gasoline and oil for their size, have been brought back into condition when fitted with Nu-Power Piston Rings. Nu-Power Piston Rings eliminate a whole lot of repair work, due to their three-piece construction. They fit tightly all the way around, perfectly sealing the compression and preventing leakage. Besides giving more power—more speed—greater flexibility—quicker pickup—Nu-Power Piston Rings greatly aid in doing away with oil sooted plugs and excessive carbon deposits due to oil leakage. Shipping weight, each, 3 to 6 ounces. Each.......................75¢

Nu-Power Piston Rings—All Sizes 75¢ Each

Article Number	Size	Article Number	Size	Article Number	Size
61 C 9491	2⅝x3/16 in.	61 C 9467	3½x3/16 in.	61 C 9476	3½x¼ in.
61 C 9460	2¾x3/16 in.	61 C 9468	3⅝x3/16 in.	61 C 9495	3⅝x¼ in.
61 C 9461	2 13/16x3/16 in.	61 C 9469	3 11/16x3/16 in.	61 C 9477	3¾x¼ in.
61 C 9462	2⅞x3/16 in.	61 C 9470	3¾x3/16 in.	61 C 9496	3⅞x5/32 in.
61 C 9463	3 x3/16 in.	61 C 9471	3⅞x3/16 in.	61 C 9478	4 x¼ in.
61 C 9464	3⅛x3/16 in.	61 C 9472	4 x3/16 in.	61 C 9480	4¼x¼ in.
61 C 9465	3¼x3/16 in.	61 C 9473	4⅛x3/16 in.	61 C 9485	4 x5/16 in.
61 C 9466	3⅜x3/16 in.	61 C 9492	3¼x¼ in.	61 C 9490	4⅛x⅜ in.



Oil Groove Quick-Seating Piston Rings

A groove in each ring holds a quantity of oil, thus forming a film that prevents excessive oil working up past the pistons and seals the compression so there is a big saving in gasoline and oil. Your motor will run better and you will not have spark plug trouble due to the pistons "pumping" or "throwing oil." Quick seating style which fit perfectly when driven about 100 miles. When installing the upper ring, place groove at the bottom, and the lower rings, place grooves at the top. Shipping weight, each, 2 to 5 ounces.
All sizes. Each.......................27¢

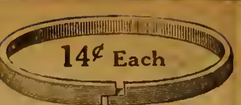
Article Number	Size	Article Number	Size	Article Number	Size
61 C 8972	2⅝x3/16 in.	61 C 8982	3½x3/16 in.	61 C 8991	3¼x¼ in.
61 C 8973	2¾x3/16 in.	61 C 8983	3⅝x3/16 in.	61 C 8984	4⅝x¼ in.
61 C 8974	2 13/16x3/16 in.	61 C 8985	3 11/16x3/16 in.	61 C 8992	3¾x¼ in.
61 C 8975	2⅞x3/16 in.	61 C 8986	3¾x3/16 in.	61 C 8988	3⅞x5/32 in.
61 C 8976	3 x3/16 in.	61 C 8987	3⅞x3/16 in.	61 C 8993	4 x¼ in.
61 C 8977	3⅛x3/16 in.	61 C 8989	4 x3/16 in.	61 C 8994	4¼x¼ in.
61 C 8978	3¼x3/16 in.	61 C 8990	4⅛x3/16 in.	61 C 8998	4 x5/16 in.
61 C 8981	3⅜x3/16 in.	61 C 8979	3¼x¼ in.	61 C 8999	4⅛x⅜ in.

Oversize Oil Groove Quick-Seating Piston Rings

We can supply oversizes for any of the **Oil Groove Piston Rings** listed above. They will be **shipped from the factory in Central Indiana.** We furnish oversize rings in the oil groove type only. Be sure to mention the regular size, the oversize and the article number for the over size shown below. Ship. wt., 2 to 5 oz.

261 C 8968—.0025 Oversize. Each.............27¢
261 C 8969—.005 Oversize. Each.............27¢
261 C 8970—.010 Oversize. Each.............27¢
261 C 8971—.025 Oversize. Each.............27¢

Mention Regular Size Also

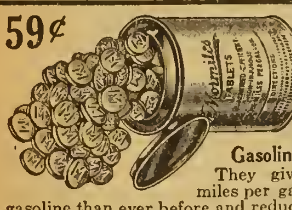


Quick Seating Step-Cut Piston Rings

Made of an excellent quality, very tough and springy metal. Individually cast, quick seating style. Can be used in replacing any style rings. Supplied only in sizes listed. Shipping weight, each, 2 to 5 ounces.
Each.......................14¢

Article Number	Size
61 C 9118	2⅝x3/16 inches
61 C 9120	2¾x3/16 inches
61 C 9121	2⅞x3/16 inches
61 C 9119	2 13/16x3/16 inches
61 C 9122	3 x3/16 inches
61 C 9123	3⅛x3/16 inches
61 C 9125	3¼x3/16 inches
61 C 9126	3½x3/16 inches
61 C 9129	3⅜x3/16 inches
61 C 9127	3⅝x3/16 inches
61 C 9128	3¾x3/16 inches
61 C 9100	3⅞x5/32 inches
61 C 9130	3⅞x3/16 inches
61 C 9149	3 11/16x3/16 inches
61 C 9131	4 x3/16 inches
61 C 9132	4⅛x3/16 inches
61 C 9124	3¼x¼ inches
61 C 9134	3⅝x¼ inches
61 C 9135	3½x¼ inches
61 C 9136	3¾x¼ inches
61 C 9137	4 x¼ inches
61 C 9139	4¼x¼ inches
61 C 9143	4 x5/16 inches
61 C 9148	4⅛x⅜ inches

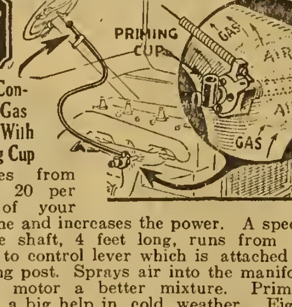
Gasoline Savers



59¢

Mormiles Gasoline Tablets

They give more miles per gallon from gasoline than ever before and reduce carbon. Gas treated with Mormiles Tablets will show a wonderful improvement in your motor, both in power and speed. Mormiles keep your spark plugs clean by utilizing all the available gas. Positively harmless. Contain no acid or chemical to injure your motor in the slightest. They do not interfere with lubrication. Box contains 100 tablets, which will treat 100 gallons. Shipping weight, per box, 5 ounces.
61 C 9185—Box of 100............59¢



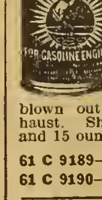
Hand Controlled Gas Saver With Priming Cup

Saves from 10 to 20 per cent of your gasoline and increases the power. A special flexible shaft, 4 feet long, runs from the mixer to control lever which is attached to steering post. Sprays air into the manifold, giving motor a better mixture. Priming cup is a big help in cold weather. Eight-inch standard pipe thread. Nickel plated. Shipping weight, 8 ounces.
61 C 2150..................$1.75

Worko Carbon Remover

73¢

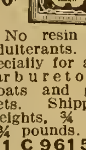
To clean out the carbon you simply remove the spark plugs from the cylinders, insert two Worko tablets, replace the plugs, start the motor, run it slowly for a moment, get in your car and ride. Worko is harmless, except to the carbon. Carbonized cylinders consume more oil and gasoline than clean cylinders. Worko leaves your cylinders and pistons as clean as they were when new. Shipping weights, 8 ounces and 1 pound.
61 C 9176—24 tablets..............$ .73
61 C 9177—72 tablets.............. 1.47



Never-Knock Carbon Remover

Just put a few drops in the cylinders, run your motor and the carbon will be dissolved and blown out through the exhaust. Shipping weights, 8 and 15 ounces.
61 C 9189—Small size..34¢
61 C 9190—Large size..49¢

Gas-kalac



30¢

No resin or adulterants. Especially for auto carburetors, floats and gaskets. Shipping weights, ¾ and 1¾ pounds.
61 C 9615—½ pint.....30¢
61 C 9726—1 pint.....57¢

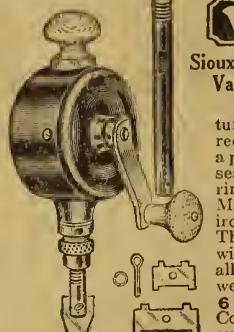
Cast Steel and Iron Cement

A metallic chemical iron cement that withstands heat, oils, grease and steam. When once hard it becomes a metallic surface. For repairing cracks, defective cylinders, jackets and radiators. Shipping weights, per can, ¾ and 1½ pounds.
61 C 9230—Small size... 21¢
61 C 9206—Large size... 49¢

Magic Solderine

A fire and waterproof preparation that will mend leaks in radiators, pipes and other articles without the use of heat. Simply cover place to be mended with Solderine—a child can use it. Also handy for household use. Shipping weight, per tube, 6 ounces.
61 C 9193—Tube....................18¢

Valve Grinding Supplies



Sioux Quick Action Valve Grinder

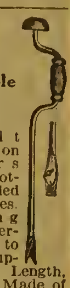
Handle always turns in one direction. Makes a perfect, smooth seat; leaves no rings or ridges. Made of malleable iron and steel. Three fittings with five ends for all valves. Ship. weight, 4¼ lbs.
61 C 9333—Complete outfit.....$2.59

Valve Lifter

36¢

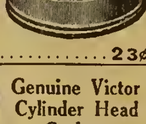
The ratchet holds it in any position, requiring no holding while removing valve pin. May be adjusted instantly with one hand. Enameled black. Length, 11 inches. Shipping weight, 1½ pounds.
61 C 2556..........36¢

Adjustable Valve Grinder

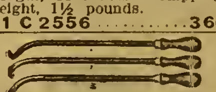


Will fit valve heads on all cars whether slotted or drilled with two holes. The long shank permits user to hold tool upright easily. Length, 21 inches. Made of steel, bright finish; metal handle and top. Ship. wt., 1½ lbs.
61 C 9319..69¢

Valve Grinding Compound



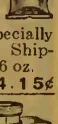
Fast cutting. Double end box; one end contains fine, the other coarse grade. Contents, 4 ounces. Shipping weight, 7 ounces.
61 C 9308......................23¢



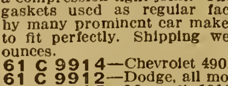
Carbon Scrapers

For removing carbon from top of the pistons without taking off the head on the top of the cylinder. Length, over all, 13¼ inches. Shipping weight, per set, 1 pound.
61 C 9173—Set of 3...37¢

Prussian Blue



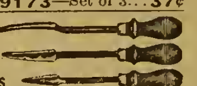
Used when fitting bearings and valves to locate high spots. Especially for auto use. Shipping weight, 6 oz.
61 C 9184.15¢



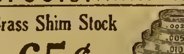
Genuine Victor Cylinder Head Gaskets

Copper asbestos Gaskets which will give a compression tight joint. These are the same gaskets used as regular factory equipment by many prominent car makers. Guaranteed to fit perfectly. Shipping weights, 10 to 14 ounces.
61 C 9914—Chevrolet 490, all years$.40
61 C 9912—Dodge, all models...... .40
61 C 9913—Maxwell, 1916 to 1922.. .42
61 C 9964—Oakland 32, 32B, 34, 34B, 34C, 1916 to 1922.............. .42
61 C 9915—Overland 75 and 90.... .65
61 C 9916—Overland 83 and 85.... 1.05
61 C 9887—Overland 4-'20-'21-'22. .42
61 C 9888—Studebaker Light 6. 1920-'21-'22..................... .89

Bearing Scrapers



Well made of forged steel, with carefully ground edges, and have hardwood handles. Curved in the proper shape to insure effective work. Three standard sizes in set. Shipping weight, per set, 1¼ pounds.
61 C 9171—Set of 3....95¢

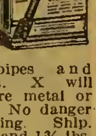


27¢

Bearing Scraper

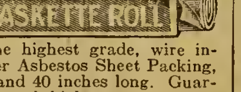
Hardened steel with three cutting edges. Ship. wt., 4 oz.
61 C 9191..........27¢

X Liquid Radiator Cement



Repairs all kinds of water leaks in metal pipes and radiators. X will not injure metal or rubber. No danger of clogging. Ship. wts., 1¼ and 1¾ lbs.
561 C 9322—½ pint size for light cars..........65¢
561 C 9213—Pint size for large cars.......$1.25

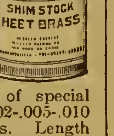
Garco Gaskette Roll



A piece of the highest grade, wire inserted, long fiber Asbestos Sheet Packing, 10 inches wide and 40 inches long. Guaranteed to withstand highest pressure or temperatures. May be used for gas engine cylinder heads, intake and exhaust manifolds, pipes or steam boilers; 1/16-inch thick. Shipping weight, per roll, 1¾ pounds.
61 C 9192—Per roll..........$1.60

Brass Shim Stock

65¢

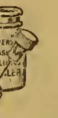


Used for getting a better fit on connecting rod and main bearings. Package contains four rolls of special sheet brass of .002-.005-.010 and .015 thickness. Length of rolls, 25 inches; width, 2½ in. Shipping weight, pkg., 1 lb.
61 C 9105—Package 65¢

Liquid Radiator Cement

Never clogs circulation system. One can usually is enough to stop ordinary radiator leaks. For large cars use pint size. Shipping weight, 1¼ and 1¾ pounds.
61 C 9207—Half-pint size. 29¢
561 C 9334—Pint size......49¢

Gasket Sealer



Makes every gasket tight and fast, also gasoline and oil-proof. Used for all connections requiring a tight joint. Sets quickly. Shipping weight, 4 ounces.
61 C 9664—Bottle.....14¢

Use Riverside Tires
—they give you "Most for the Money"

Paints and Varnishes

Paint Today Drive Tomorrow

A wonderfully easy applying Auto Enamel which flows smoothly and dries hard over night. It leaves a glossy black finish that will not crack or chip and does not show brush marks like ordinary paint. Only one coat needed to bring your car back to its original appearance. The Blaxshine outfit is complete, containing a three-pint can of Blaxshine; one extra fine good size brush; sandpaper; steel wool, and a cup to pour the enamel in. You will be able to do an entirely satisfactory job in a short time with this outfit. Shipping weights, 2, 3 and 5 pounds.
61 C 2268—Pint size..............$ .65
61 C 2267—Quart size.............. 1.20
61 C 2266—Complete special outfit. 2.59

Top Dye and Leather Renewer

Mohair Dye renews, waterproofs, and dyes mohair tops, linings and curtains in one application. Also acts as a preservative. Can be used on leather seats or cushions. Dries in a few minutes. Deep black in color. Shipping weight, per can, 2¾ pounds.
61 C 9658—Quart size ....79¢

Leather Dye—Makes old shabby tops (leather or pantasote), seats, top linings look bright and fresh at a very small cost. Preserves and waterproofs them as well. Jet black. Shipping weights, per can, 1¾ and 2¾ pounds.
61 C 9651—Pint size can..... 47¢
61 C 9680—Quart size can.... 79¢

Black Paints

For all under parts of motor cars. Dries in 8 hours and hardens in 24 hours. Ready for use. Produces a glossy, lustrous finish that sticks to any surface and stands the wear, mud and weather. Shipping weight, per can, 1½ pounds.
61 C 9702—Pint size can.79¢

High grade finish to be used on metal parts. Not affected by heat or cold. For finishing lamps, hoods or fenders. Shipped ready to use. Dries overnight. Shipping weight, per can, 14 ounces.
61 C 9719—Half-pint size can.........45¢

Riverside Gloss Auto Paint

59¢

For repainting auto bodies, hoods and fenders. One coat gives automobile glossy cover of colored paint. Dries very quickly. Hardens in 24 hours—stands the weather, hot or cold. Shipping weights: Pint, 1½ pounds; quart, 3½ pounds.

Colors	Article Number	Pt. Size	Article Number	Qt. Size
Dark Gray	61 C 9707	79¢	61 C 9713	$1.35
Deep Blue	61 C 9708	79¢	61 C 9714	1.35
Deep Red	61 C 9709	79¢	61 C 9715	1.35
DeepGreen	61 C 9710	79¢	61 C 9716	1.35
Brimstone Yellow	61 C 9711	79¢	61 C 9717	1.35
Black	61 C 9712	59¢	61 C 9718	1.05

Majestic Painting Outfit

For Small and Medium Size Cars

$3.75

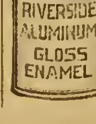
Anyone can use this Outfit with excellent results. The ingredients are of high quality. With it you can paint your car in a few hours and make a great saving. Contents: 1 quart glossy black or green color Finish; 1 pint glossy Lamp, Hood and Fender Black; 1 pint Leather Renewer and Top Dye; one 1-inch fine Bristle Brush; one 1½-inch Brush; one roll Steel Wool; one package Waste. Complete easy instructions, telling exactly what to do from start to finish. Shipping weight, outfit, 5 pounds.

561 C 9699—Black Outfit......$3.75
561 C 9700—Green Outfit......$4.15

Black Engine Enamel

Paint your engine once or twice a year. To apply you simply clean engine with gasoline to remove oils, then give it a good coating. Will not crack or peel. Shipping weight, can, 14 ounces.
61 C 9705—Half-pint size can........37¢

Aluminum Gloss Enamel



Many autoists prefer aluminum color motors to black. It is practically a waterproof, rustproof and heatproof aluminum enamel that will wear well. Will not tarnish quickly. Shipping weight, per can, 8 ounces.
61 C 9722—Quarter-pint size can.... 25¢

Automobile Varnish

Waterproof. For use on all wood and metal parts. Easy to apply. Gives a beautiful gloss. Will not show laps or brush marks. Shipping weights, per can, 1, 1½ and 2¾ pounds.
61 C 9724—½-pint size can.$ .35
61 C 9725—Pint size can.. .59
561 C 9681—Quart size can 1.10

For the Hands

Quick acting, efficient and goes farther than other soaps of this kind. Rubbing-in action quickly removes oil, grease and dirt. Will not injure the skin. Ship. weight, can, 1 pound.
61 C 9659—Per can. 11¢

Auto Supplies that make cold weather driving a pleasure. Page 577

Kingston Carburetor For Maxwell and Chevrolet 490

$8.85

One of the best known carburetors on the market. These two models incorporate all the late gasoline saving and power producing features that have been brought out by this company. Quicker pickup—easier starting and smoother action will be instantly noticed when your car is equipped with one of these new models. Shipping weights, complete, 6½ and 5 pounds, respectively.

61 C 5700—For all Maxwell 25 models—1915 to 1921. Furnished complete with hot air extension pipe and exhaust stove.......... **$10.30**

61 C 5701—For all Chevrolet 490 models. Furnished complete with all connections.......... **$8.85**

Mechanics' Special Assortment

An outfit that will often pay back its price in time saved when making repairs, as it consists of capscrews, nuts, bolts, setscrews, rivets, cotter pins, lock washers, etc., in the sizes most used on autos, trucks, tractors and machinery about the farm or shop. Carry a set in your car and keep another at home. Shipping weight, assortment, 4½ pounds.

61 C 3516—Complete assortment... **$1.08**

We Supply Instructions So You Can Do Your Own Repairing

There are many repairs which the auto owner can easily make on his car, and thus save considerable money; but many motorists hesitate to attempt the work, thinking it may be difficult. We make it easy for you to do most of your repairing by including simple, easily understood directions with every article which the average motorist may not be entirely familiar with. For example, with every order for Challenge Brake Lining we include a little book showing exactly how to reline brakes. These instructions are very simple and are written so clearly that anyone can follow them. Every motorist has found that the more he knows about his automobile and the better he understands it, the more pleasure he gets from driving. There is no better way to learn about your car than to do your own repairing. Get one of our Socket Wrench Sets—order the repairs you need and put them on yourself. You will value both the saving and the experience.

Speedometer Parts

Speedometer Swivel Joints

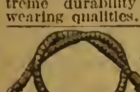
The swivel may be adjusted for wear or taken apart for replacing worn gears or minor parts. Fit all Stewart speedometers perfectly. Shipping weight, 1¼ pounds.

61 C 2544—Right.......**$2.30**
61 C 2545—Left........ **2.30**

All gears are carefully fitted, insuring extreme durability and wearing qualities.

Swivel joints listed below are non-adjustable type.

61 C 2542—Right.......**$1.58**
61 C 2543—Left........ **1.58**

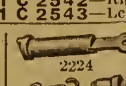


Speedometer Shafts

$2.25

Complete with end fittings to fit Stewart speedometers. Are entirely interchangeable. Shipping weight, 4 pounds.

61 C 2208—50 inches.$2.25
61 C 2209—54 inches. 2.25
61 C 2210—60 inches. 2.25
61 C 2211—66 inches. 2.25
61 C 2212—72 inches. 2.25



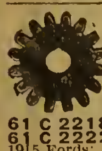
Speedometer Clutches and Shaft Fittings

Interchangeable with Stewart parts. Made of best steel especially heat treated for long wear. Shipping weight of each, 2 ounces.

61 C 2223—Upper end clutch of chains..........**8¢**

61 C 2224—Sliding bar and lower end clutch of chains...**15¢**

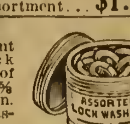
61 C 2225— Links for chains. Per foot..........**8¢**



Speedometer Fiber Gears

Gears for Stewarts have 16 teeth. These gears are made of fresh sheet fiber; accurate mesh. Made in cotter pin type only, for Stewart speedometers only, except No. 61 C 2222. Shipping weight, 2 ounces.

61 C 2216—No. 1; diameter, 2¼ inches **10¢**
61 C 2217—No. 2; diameter, 2 inches **10¢**
61 C 2218—No. 3; diameter, 1¾ inches.......... **10¢**
61 C 2222—Standard Jones, Sears Cross fiber gears for 1915 Fords; 1¾ inches, 12 teeth.......... **10¢**



Lock Washers

A full assortment of 39 steel lock washers. Size of hole, from ¼ to ⅝ inch. Strong carton. Shipping weight, assortment, 8 ounces.

61 C 9115......**10¢**

Cotter Pins

In paper canisters containing about 100 spring steel cotter pins, in assorted lengths and thicknesses. Ship. wt., assortment, 6 ounces.

61 C 9104......**10¢**

Dunn Counterbalances for Dodge and Chevrolet 490 Crankshafts

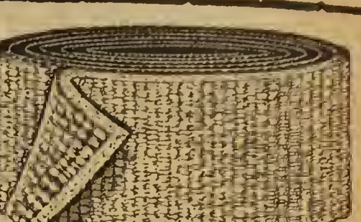
Dunn counterbalances carry the pistons over the gap between explosions and reduce vibration, thus saving unnecessary strain on the engine. Prevent springing the crankshaft and reduce wear on the bearings. They also increase the power, as the force formerly absorbed by the vibrating of the crankshaft is transmitted to the rear wheels. Easy to install, and once on they require no further attention. Shipping weights, per set, 20 and 16 pounds.

61 C 6570—For Dodge cars. Complete set.......... **$9.35**

61 C 6571—For Chevrolet 490. Complete set.......... **$7.85**

Challenge Brake Lining

Prepares You for Emergencies and Gives You a Feeling of Safety

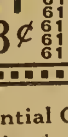


Probably no one thing causes so much uneasiness to the auto driver as the knowledge that the brakes may not hold. Put aside this uncertainty by lining your brakes yearly with Challenge Lining. In an emergency it will lock the wheels or, with a light pressure on the brake, it brings your car to a slow stop without jerking.

This lining is used as regular equipment by several manufacturers. Challenge Lining is made of a fine staple, fibrous asbestos yarn closely interwoven with brass wire. It will not char or burn from friction heat, nor does it soften or become hard. It is heatproof, oilproof and waterproof. Average shipping weights, per foot, 4 to 9 ounces.

Brake Lining Prices

Article Number	Per Foot	Width	Thickness
61 C 9406	13¢	1 in.	⅛ inch
61 C 9407	15¢	1¼ in.	⅛ inch
61 C 9448	16¢	1¼ in.	5/32 inch
61 C 9449	20¢	1½ in.	5/32 inch
61 C 9421	23¢	1⅝ in.	5/32 inch
61 C 9422	25¢	1⅞ in.	5/32 inch
61 C 9423	26¢	2 in.	5/32 inch
61 C 9450	24¢	1¾ in.	5/32 inch
61 C 9451	19¢	1¼ in.	3/16 inch
61 C 9408	22¢	1½ in.	3/16 inch
61 C 9409	25¢	1¾ in.	3/16 inch
61 C 9410	27¢	2 in.	3/16 inch
61 C 9411	31¢	2¼ in.	3/16 inch
61 C 9412	35¢	2½ in.	3/16 inch
61 C 9413	45¢	3 in.	3/16 inch
61 C 9424	37¢	2 in.	¼ inch
61 C 9425	40¢	2¼ in.	¼ inch

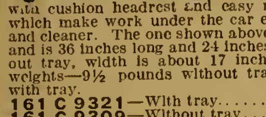


Brass Split Rivets

13¢

Especially for brake lining. Size for Fords, 5/16 inch or ½ inch; 100 in box. Shipping weights, 3 to 5 ounces.

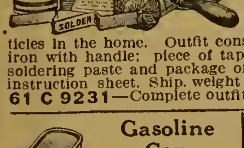
Number	Length	Box
61 C 9416	5/16 in.	13¢
61 C 9417	7/16 in.	15¢
61 C 9418	½ in.	17¢
61 C 9419	⅝ in.	19¢
61 C 9420	¾ in.	21¢



Auto Creeper

Strongly made with hardwood bed crosspieces. Fitted with cushion headrest and easy rolling casters which make work under the car easier, quicker and cleaner. The one shown above has tool rack and is 36 inches long and 24 inches wide. Without tray, width is about 17 inches. Shipping weights—9½ pounds without tray; 12 pounds with tray.

161 C 9321—With tray..........**$1.95**
161 C 9309—Without tray........ **1.59**



Soldering Outfit

A handy motorists' outfit for soldering radiators and wire connections, as well as for articles in the home. Outfit consists of soldering iron with handle; piece of tape solder; can of soldering paste and package of steel wool; also instruction sheet. Ship. weight of outfit, 1½ lbs.

61 C 9231—Complete outfit....... **$1.10**

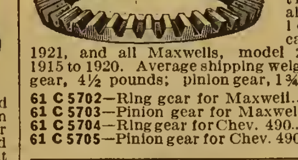
$7.25

Boyco Service Unit

The gasoline can is red and marked "Gasoline." The oil can is blue, marked "Oil." The water can is covered with a heavy striped blanket which helps to keep it cool for drinking. The entire outfit is quickly attached to the running board with two special clamps. Gasoline can holds 2 gallons; oil can 1 gallon; water can 2 gallons. The outfit is complete with the cans and offset funnel, the holder and running board clamps. Shipping weight of outfit, 14 pounds.

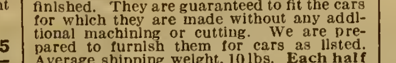
61 C 6450—Complete outfit....... **$7.25**

Differential Gears



Drop forged quality ring gears and nickel steel pinion gears to replace those on all Chevolet 490 cars up to 1921, and all Maxwells, model 25, from 1915 to 1920. Average shipping weights, ring gear, 4½ pounds; pinion gear, 1¾ pounds.

61 C 5702—Ring gear for Maxwell..**$3.95**
61 C 5703—Pinion gear for Maxwell **2.25**
61 C 5704—Ring gear for Chev. 490.. **3.25**
61 C 5705—Pinion gear for Chev. 490 **1.35**



Rear Axle Shafts for Popular Cars

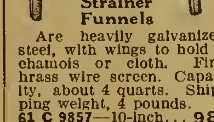
Our rear axle shafts are made of the best carbon steel, carefully machined and finished. They are guaranteed to fit the cars for which they are made without any additional machining or cutting. We are prepared to furnish them for cars as listed. Average shipping weight, 10 lbs. **Each half**

461 C 9903—Chevrolet 490.....**$1.30**
461 C 9884—Chevrolet Baby Grand 1914 to '17..........**$2.75**
461 C 9904—Chevrolet Baby Grand '18 to '21..........**$2.75**
461 C 9907—Dodge, all models **1.60**
461 C 9905—Maxwell 25, right, 1914 to '19..........**$1.45**
461 C 9906—Maxwell 25, left, 1914 to '19..........**$1.45**
461 C 9957—Overland 75 to 90 C. C., right..........**$2.15**
461 C 9958—Overland 75 or 90 C. C., left..........**$2.15**
461 C 9959—Overland 90, right **2.15**
461 C 9960—Overland 90, left.. **2.15**
461 C 9886—Studebaker, 4 and 6 cyl., 1914 to '18..........**$2.30**

Gasoline Can

Carry this can filled and you will always have a gallon ready for emergency. Convenient shape, fits under seat. Height, is 10½ inches; thickness, 3⅛ inches; width, 8¾ inches. Shipping weight, 1¾ pounds.

61 C 9856.........**73¢**

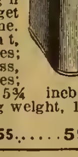


85¢

Gasoline Strainer Funnels

Are heavily galvanized steel, with wings to hold a chamois or cloth. Fine brass wire screen. Capacity, about 4 quarts. Shipping weight, 4 pounds.

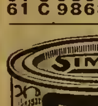
61 C 9857—10-inch... **98¢**
61 C 9859—9½-inch.. **85¢**



Oil Can

Capacity, 2 quarts. Will hold enough oil to get you home. Height, 8¾ inches; thickness, 3⅛ inches; width, 5¾ inches. Shipping weight, 1½ pounds.

61 C 9855......**59¢**



Funnel Measures

Very handy tin measure with funnel which prevents wasting oil over the sides. Shipping weights, 1½ and 2 pounds.

61 C 9867—Pint size.......**18¢**
61 C 9868—Quart size......**25¢**

Spring Leaf Spreader

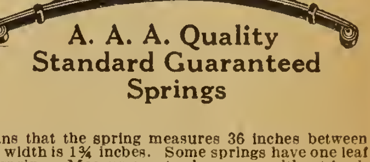
Makes the spreading of spring leaves easy for oiling or graphiting. Can also be used as a clamp for a broken spring. Steel, nickel plated. Shipping weight, 1¼ pounds.

61 C 9810..........**$1.60**

Creep-in Oil for Springs

This is a special oil which will creep in between spring leaves. Used by squirting on the edges of the springs. Makes the car ride easily. Shipping weights, 1 and 1¾ pounds.

61 C 6381—½ pint......**30¢**
61 C 6382—1 pint.......**45¢**



Every spring painted black and fully guaranteed for a year against sagging or breaking. All springs are guaranteed to match the other springs on the car in load depression.

If the make of your car is not listed, write and we will quote prices.

A. A. A. Quality Standard Guaranteed Springs

A spring 36 by 1¾ means that the spring measures 36 inches between centers of eyes and that the width is 1¾ inches. Some springs have one leaf more or less than original spring. Measurements shown are without load. Order by article number only. **Springs marked with (*) are shipped from stock; all others from factory in Southern Michigan. If style of car is not mentioned, the spring fits all touring, roadsters, sedans or coupes.**

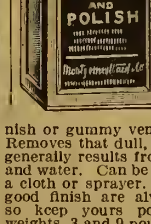
Article Number	Car and Model	Location	Size Inches	Ship. Wt.	Each
*461 C 6000	Briscoe, 4-24, 1917-18-19	Front	29¾x1¾	29 lbs.	$3.95
*461 C 6001	Briscoe, 4- 4, 1917-18	Rear	33 x1¾	34 lbs.	5.95
*461 C 6096	Chevrolet, 490, '17-18-19	Front	22½x1¾	21 lbs.	2.95
*461 C 6097	Chevrolet, 490, 1916-17-18-19 Touring	Rear	30 x2	30 lbs.	3.95
261 C 5913	Chevrolet, 490, 1920-21	Front	23½x1¾	18 lbs.	2.95
261 C 5916	Chevrolet, 490, 1920-21	Rear	30 x2	28 lbs.	3.95
*461 C 6098	Dodge, all models	Front	35 x1¾	19 lbs.	2.60
*461 C 6099	Dodge, 1915 to 1920	Rear	41¾x2	31 lbs.	3.85
261 C 5915	Dodge, Touring 1921	Rear	44 x2	36 lbs.	4.25
*461 C 6101	Dort, 1916 to 1920	Front	37 x2	27 lbs.	3.65
261 C 5924	Hupp., R., 1918-19-20-21	Front	35½x1¾	21 lbs.	3.25
261 C 5926	Hupp., R., 1918-19-20-21	Rear	49½x2	40 lbs.	5.95
*461 C 6166	Maxwell, 25, 1914 to 1919	Front	31½x1¾	19 lbs.	2.45
*461 C 6167	Maxwell, 25, 1914-15-16	Rear	38¾x1¾	23 lbs.	3.05
*461 C 6294	Maxwell, 25, 1918-19-20-21	Rear	47½x2	35 lbs.	4.45
261 C 5928	Maxwell, 25, 1920-21	Front	31¾x2	23 lbs.	2.95
*461 C 6197	Oakland, 34, 34B, Touring 1917-18-19	Rear	49½x1¾	33 lbs.	4.65
261 C 5927	Oakland, 34C, 1920-21	Front	35¼x1¾	24 lbs.	3.40
261 C 5929	Oakland, 34-C, 1920-21 Tour. and Roadster	Rear	49⅛x1¾	31 lbs.	4.95
*461 C 6229	Overland, 75, 75-B, 90-CC, 90 Roadster, 1916-17	Front	35¼x1¾	20 lbs.	2.75
*461 C 6230	Overland, 75, 75-B Touring 90CC, 1916-17	Rear	41 x2	40 lbs.	4.85
*461 C 6297	Overland, 90, 90-B Touring 1917-18-19	Front	35½x1¾	24 lbs.	3.25
*461 C 6252	Saxon, 4 cyl., 1915 to 1919	Front	21 x1½	12 lbs.	1.65
*461 C 6253	Saxon, 4 cyl., 1915 to 1919	Rear	22 x1½	12 lbs.	1.65

Simons Kleener and Wax

43¢

Two wonderful aids for keeping your car new looking for years. Simons Kleener removes dirt, grease stains and road grime without injuring the surface. Simons Wax is a polish in paste form that gives a bright, glossy, long lasting finish. Shipping weights: Kleener, 16 ounces; wax, 10 ounces.

61 C 9572—Kleener....**43¢**
61 C 9571—Wax.......**43¢**



Riverside Auto Polish and Cleaner

43¢

Produces a water proof finish; will not collect dust. Contains no wax, soap, varnish or gummy veneering substances. Removes that dull, smoky look which generally results from using just soap and water. Can be applied either with a cloth or sprayer. Cars that have a good finish are always worth more, so keep yours polished. Shipping weights, 3 and 9 pounds.

561 C 9553—Quart can..... **43¢**
561 C 9554—Gallon can.... **98¢**

Polishes and Brushes

$1.59

Auto "Spra" Fountain Brush

Gets at those places that are hard to reach and cause so much trouble when using a rag or sponge. The Auto "Spra" is a water saver—uses less water than the hose alone. Quickly attached to any standard hose coupling on ordinary garden hose. There are no loose movable parts and the coupling has a shoulder to hold it in place. Long, hard maple handle reaches out-of-the-way places. Spray part (patented) in seamless brass. Best China bristles used. Entire length, 17 inches. Shipping weight, 1¼ pounds.

61 C 9601..........**$1.59**

Johnson's Liquid Wax

45¢

Produces same results as Johnson's Prepared wax. Easily applied with cloth or spray. Shipping weights, 1½ and 3 pounds.

61 C 9558—Half pint........**45¢**

61 C 9559—Pint..........**68¢**

Johnson's Cleaner and Wax

35¢

Cleaner removes stains and is much better than soap, putting the body in condition for the wax. Johnson's Wax keeps cars looking like new. Shipping weights, 10 and 7 ounces.

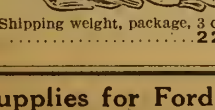
61 C 9560—Cleaner.....**35¢**
61 C 9561—Wax.......**35¢**

$75.00 Buys Garage

First class materials. Solid construction. Not an inferior portable, but a well built, permanent garage. All parts cut to fit—you can erect it yourself in half a day. Our price includes all lumber, hardware, roofing, and two coats of paint.

Send for Our Circular

Auto Wiping Cloths

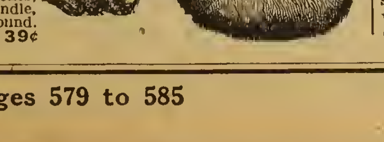


A knitted soft cloth for polishing or wiping the automobile, piano or any other delicately finished surface. To be used either dry or with polish. Better than waste, it can be washed. Better than old rags, it will not scratch. Shipping weight, package, 3 oz.

61 C 9606—Package of 3..........**22¢**

Dustless Duster

39¢

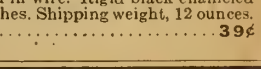


It takes up the dust and will not scratch. This is a much easier and quicker method than using rags. Readily washed with soap and water. Length of brush part, 10 inches; width, 5½ inches; length of handle, 7 inches. Shipping weight, ¾ pound.

61 C 9608..........**39¢**

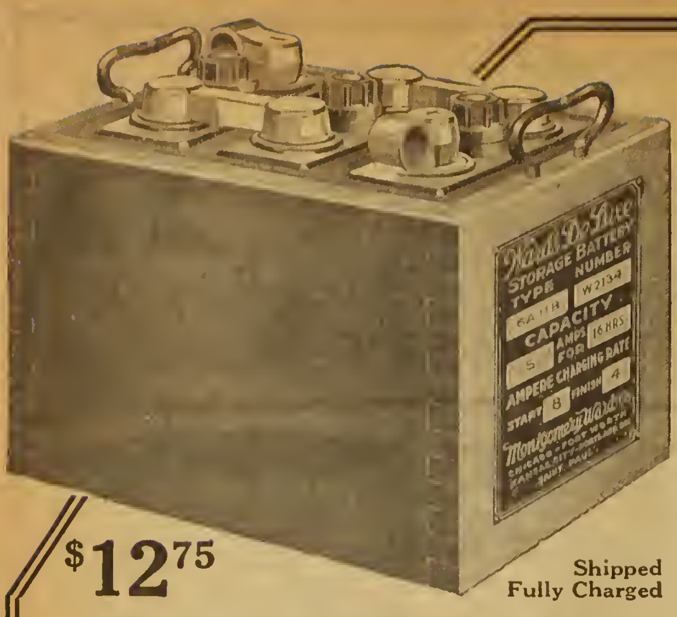
Spoke Brush

39¢



Just the thing for spokes, under fenders and around the springs. Stiff bristles twisted in wire. Rigid black enameled wood handle. Length, 18 inches. Shipping weight, 12 ounces.

61 C 9602..........**39¢**



Ward's Guaranteed *De Luxe* Auto Storage Batteries

$12.75

Shipped Fully Charged

Compare Prices—See How We Save You $6.50 to $15.00

You save $6.50 to $15.00 by purchasing a Ward's De Luxe Battery. We sell thousands of batteries a month on a **one small profit** basis. By eliminating the usual extra profits paid to jobbers, salesmen, distributors and the high expenses necessary to maintain them we give you better quality for less money.

De Luxe Batteries Guaranteed One Year

You take no chances on quality when you buy De Luxe Batteries from Ward's. Every part and ingredient used in De Luxe Batteries is brand new, fresh stock. We positively do not sell rebuilt batteries. De Luxe Storage Batteries are fully guaranteed for a period of one year against any defects in material or workmanship. Any De Luxe Battery which develops trouble due to a defect within the one year period, will be repaired free of charge or replaced on a service basis.

The Reason Our Prices Are Lower

Every year our sales of batteries have shown wonderful increases. Greater sales enable us to reduce selling prices, for Ward's have always conducted business on the basis of a small profit on large sales rather than a large profit on small sales. Contracts have been placed for battery materials with a view to making this by far the greatest battery year in our history. **Manufacturing conditions have been bettered to take care of the increased business. Our shipping arrangements have been improved to give you immediate shipment. And even our one small profit has been reduced to give you a greater value.**

30 Days' Trial in Your Own Car

Think of it! You can use a De Luxe Battery 30 days to convince yourself thoroughly that it will do all that can be expected from any battery, regardless of price. You can see for yourself that the De Luxe will spin your motor over with great force — that it will furnish your plugs a powerful spark—that it will give your lamps a strong, bright light.

You Don't Risk a Cent

This 30-Day Trial Offer is, we believe, the fairest battery proposition ever made to auto owners. Simply send in your order in the regular way, enclosing remittance—put the battery in your car and use it. If at the end of the 30 days you should feel for any reason that the De Luxe is not equal in every way to any battery on the market we will refund your money and all transportation charges you have paid.

Made for All Cars

We can furnish De Luxe Batteries for all cars; so if your make is not shown, write and we will quote you a price. Specify name of car, year, model and name of starting system. Also give voltage, length, width and height to the top of the handles of the old battery. If possible tell us all that appears on the nameplate.

Change Your Own Battery

Each De Luxe Battery is specially designed to fit exactly in the space provided by the car manufacturer, and the terminal posts are arranged so your wires can be easily connected. In most cases it is as easy to change a battery as it is to change a tire.

Unless Otherwise Specified, All Batteries Shown on This Page Are 6 Volt Type.—Shipped from Factory in Chicago.

Article Number	Name of Car	Year	This Battery Will Fit Models	Each
261 C 4047	Allen	1916–20	37-41, all 1920	$18.00
261 C 4100	Allen	1921	43	14.75
261 C 3978	Auburn	1915–17	4-36, 4-38, 4-39, 6-38, 6-39, 6-47	14.75
261 C 3979		1916–18	6-40A, 6-44	16.75
261 C 3940	Auburn... Auburn	1918–21	6-39, 6-39B, H, K, R, Sedan and Coupe	14.75
261 C 3911	Briscoe	1917	4-24 only	16.75
261 C 3913	Briscoe	1918–21	4-24	16.75
261 C 4119	Briscoe	1921	4-34	16.75
261 C 3855	Buick	1914–15	B24, B25, B36, B37, B54, B55, C24, C25	17.45
261 C 3857	Buick	1915	C36, C37, C54, C55, C4 Truck	17.45
261 C 3858	Buick	1916	D44, D45, D46, D47	14.45
261 C 3859	Buick	1916	D54, D55, D4 Truck	16.55
261 C 3860	Buick	1917–18	All Models	14.45
261 C 4044	Buick	1919–21	All Models	16.55
261 C 3914	Cadillac	1914–16	All Models	26.95
261 C 4099	Cadillac	1917–21	All Models	26.95
261 C 3915	Case	1917	T-17	17.95
261 C 3916	Case	1918–19	U-18	17.95
261 C 4040	Case	1920–21	All Models	17.95
261 C 3861	Chalmers	1915–18	32, 6-40, 35, 6-30, 35C	17.95
261 C 4103	Chalmers	1916–18	32, 6-30	14.75
261 C 3917	Chalmers	1919–20	All Models	16.55
261 C 4102	Chalmers	1921	All Models	16.55
261 C 3863	Chandler	1915–16	Series 17, 10,000	17.95
261 C 3864	Chandler	1917–18	First 24,000	14.45
261 C 3918	Chandler	1918–19	Above 24,000	16.55
261 C 4039	Chandler	1920–21	New Series	16.55
261 C 3959	Chevrolet	1914–16	L, H-2, H-3, H-4 (Monroe) Baby Grand, Amesbury, Royal Mail	16.75
261 C 3960	Chevrolet	1914–15	L, H2, H4 (Baby Grand) H2½ (Royal Mail)	19.45
261 C 3866	Chevrolet	1916–19	490, F2, F5	13.25
261 C 3921	Chevrolet	1918	D4, D5	19.45
261 C 3867	Chevrolet	1917	Baby Grand, Royal Mail Series F	16.75
261 C 4105	Chevrolet	1917–18	Baby Grand, Royal Mail Series FR	16.75
261 C 3919	Chevrolet	1919–21	FB, T	16.75
261 C 3988	Chevrolet	1920–21	490, 4G	13.75

For Chevrolet, be sure to state length, width and height to top of handles of old battery.

Article Number	Name of Car	Year	This Battery Will Fit Models	Each
261 C 4128	Cleveland	1919–20	All Models	14.75
261 C 4129	Cleveland	1921	All Models	14.75
261 C 3923	Cole	1917	8-60, 8-61, 8-62	17.95
261 C 3924	Cole	1918–19	All Models	17.95
261 C 4041	Cole	1920–21	All Models	19.95
261 C 4049	Columbia	1918–21	C-D-CS, All '21 Models	14.75
261 C 3981	Crow-Elk	1918–20	All Models	14.75
261 C 3982	Crow-Elk	1921	All Models	17.95
261 C 4124	Dixie Fly	1916–19	All Models	14.75
261 C 4127	Dixie Fly	1920–21	All Models	14.75
261 C 3869	Dodge	1915–22	All Models **12 Volt**	19.45
261 C 3925	Dort	1916–20	All Passenger Models	14.45
261 C 4045	Dort	1921	17A, 12A	14.45
261 C 3989	Elgin	1919–21	All Models	14.45
261 C 4052	Elcar	1918–21	All Models	14.45
261 C 3990	Essex	1919–21	All Models	17.75

Article Number	Name of Car	Year	This Battery Will Fit Models	Each
261 C 3903	Ford	1919–22	All Models with Liberty Starter	$12.75
261 C 3833	Ford	1916–18	Gray & Davis Double Unit	12.75
261 C 3926	Franklin	1916–20	Series 9, A & B, **12 Volt**	21.40
261 C 4106	Franklin	1921	Series 9, **12 Volt**	25.45
261 C 3991	Grant	1917–19	K, G, L	13.75
261 C 3992	Grant	1918–19	1½ Ton Truck	17.75
261 C 3993	Grant	1920–21	All Models	17.75
261 C 3927	Haynes	1916–18	All but 33	20.00
261 C 3928	Haynes	1919–20	38, 39, 39R, 43, 44, 44R	17.95
261 C 4108	Haynes	1921	47	20.00
261 C 3963	Hudson	1914–15	6-40	18.00
261 C 3870	Hudson	1916	6-40	16.55
261 C 3964	Hudson	1916–21	Super 6-H	16.55
261 C 3965	Hupmobile	1914–15	HA	20.00
261 C 3872	Hupmobile	1915–17	N, NG, NL, NQ, NR, NU	18.00
261 C 3873	Hupmobile	1918–21	All Models	14.75
261 C 4053	Jackson	1917	349	14.75
261 C 4054	Jackson	1917–18	350	17.95
261 C 4055	Jackson	1920	All Models	14.75
261 C 4110	Jackson	1921	All Models	20.00
261 C 3968	Jeffery	1916–17	6-71, 4-62	18.00
261 C 4056	Kissel	1916–19	4-32, 6-42, 100 Point Six	14.75
261 C 4058	Kissel	1919–21	All Models except 100 Point Six	14.75
261 C 3983	Lexington	1916–17	6-0	14.75
261 C 3984	Lexington	1918	6-R	14.75
261 C 4121	Lexington	1919–21	All Models	18.00
261 C 3985	Liberty	1917–18	10-B	14.75
261 C 3986	Liberty	1919–20	All Models	14.75
261 C 4112	Liberty	1921	All Models	18.00

De Luxe Battery for FORDS

Was $22.75 in 1921 NOW

$12.75

The same De Luxe quality which has given wonderfully satisfactory service to thousands of large car owners is put into these De Luxe Storage Batteries used in connection with starters for Fords. Average shipping weight, about 55 pounds.

261 C 3903—For Liberty Starter furnished by Ford Motor Co., 6 volt. **$12.75**

261 C 3833—Gray and Davis 1916–17–18. Double unit **$12.75**

Article Number	Name of Car	Year	This Battery Will Fit Models	Each
261 C 3878	Maxwell	1915–16	25, Gray Davis System 6 volt	$17.95
261 C 3879	Maxwell	1915–17	25—**12 volt**	19.45
261 C 3880	Maxwell	1918–20	25—**12 volt** All Models up to 300,000	19.45
261 C 3995	Maxwell	1920–21	(6 volt) All Models over 300,000 (except truck)	13.75
261 C 3881	Mitchell	1915–16	Light 4, 6 of '16 (**12 volt**)	26.00
261 C 3883	Mitchell	1917–18	C42, 2nd Series 1916 C42	18.00
261 C 3884	Mitchell	1917–18	D40, 2nd Series 1916 D40	14.75
261 C 3935	Mitchell	1919–21	E40, E42, F40, All 20-21	14.75
261 C 3996	Monroe	1918–20	6, S, 7T, 8R, S9, S10	14.75
261 C 4059	Moon	1917–19	All except 6-36 of 1918	17.95
261 C 4113	Moon	1918	6-36	14.75
261 C 4114	Moon	1920–21	All Models	14.75
261 C 4130	Nash	1917–18	681, 682	14.75
261 C 4131	Nash	1918	671	18.00
261 C 4046	Nash	1919–20	681, 682, 683, 684	18.00
261 C 3997	Nash	1920	685-4, Truck	14.75
261 C 4132	Nash	1921	All Models	18.00
261 C 3885	Oakland	1913–15	35, 36, 37, 43, 49	18.00
261 C 3886	Oakland	1916	32	13.75
261 C 3887	Oakland	1916	38	13.75
261 C 3888	Oakland	1916–17	50	18.00
261 C 3970	Oakland	1917	32-B, 34	13.75
261 C 3890	Oakland	1918	34-B	13.75
261 C 3937	Oakland	1919	34 C	13.75
261 C 4115	Oakland	1920	34 C	16.75
261 C 4117	Oakland	1921	34 C	16.75
261 C 3938	Oldsmobile	1916–18	43, 44, 45A	13.75
261 C 3939	Oldsmobile	1917–19	45, 45B	13.75
261 C 3998	Oldsmobile	1919–20	37, 37 A Truck 4 Cyl	13.75
261 C 4042	Oldsmobile	1920–21	Truck T, all '21 models	16.75
261 C 3893	Overland	1915–18	80, 81, 82, 83, 83B, 85, 85-6, 86, 89, 0, E, 89T, 89-6	16.75
261 C 4096	Overland	1919	85-4, 86-6, 89-6	16.75
261 C 4097	Overland	1916–21	75, 75B, 90, 90B, 4	13.75
261 C 3972	Paige	1917–20	J-6-17, K-6-17, M-18, P-18, 6-39, 6-40, 6-51, 6-55, All '19 & 20 Mod	18.00
261 C 4118	Paige	1921	6-44, 6-46	18.00
261 C 3897	Reo	1914–15	Fifth, R, S, T, M	22.45
261 C 3898	Reo	1916–21	R, S, M, N, F, T, U, K	18.00
261 C 3900	Saxon	1916–17	S2, AB, 14, 15, 52 (First 1,000 '17)	13.75
261 C 3901	Saxon	1917–19	S4, B5, B14, All '18 & '19	13.75
261 C 3944	Saxon	1920–21	All Models	16.75
261 C 3975	Scripps-B	1918–19	6-39, 6-40, G H	14.75
261 C 3945	Scripps-B	1920–21	All Models	18.00
261 C 3905	Studebak'r	1914	EB, SC, 4, 6	20.00
261 C 3906	Studebak'r	1915	EC, SD	20.00
261 C 3907	Studebak'r	1916-17	4-40, 6-50, ED, SF, 7	16.75
261 C 4133	Studebak'r	1918	Series 19	16.75
261 C 4134	Studebak'r	1918	EG, EH, SH	16.75
261 C 3910	Studebak'r	1919-21	EH, EG, all '19 and '20	16.75
261 C 4135	Studebak'r	1921	EJ only	14.45
261 C 4120	Templar	1918–20	445, 475	17.95
261 C 4061	Templar	1921	All Models	17.95
261 C 4125	Tulsa	1918–20	All Models	14.45
261 C 3948	Velie	1913–20	9, 10, 11, 12, 13, 14, 15, 27,	18.00
261 C 3949	Velie	1915–20	37, 39, 6-48 22, 28, 38	13.75
261 C 4122	Velie	1920	6-34	13.75
261 C 4123	Veli	1921	6-48	18.00
261 C 3999	Willys Kgt	1915–17	86, 86-B, 89-6	18.00
261 C 4094	Willys Kgt	1916–19	84, 87, 88-4, 88-8, 88B	20.00
261 C 4098	Willys Kgt	1920–21	All Models	25.45

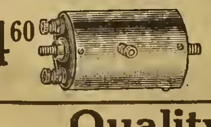
Work Rite Hydrometer and Outfit

$1.00

Jar used for distilled water and is sealed by rubber disc on the hydrometer, keeping out dust and dirt. Hydrometer is of the very best type, protected by rubber disc at bulb and rubber square at lower end, preventing it from rolling off bench or running board. Shipping weight, 2½ pounds. Hydrometer only, 1 pound.

61 C 3843—Outfit. **$1.00**

61 C 3842—Hydrometer only **.65**



$4.60 Guaranteed One Year

Quality Transformer Coils

These Coils represent the highest skill in making and produce a strong, hot spark even on low voltage. They use very little battery current. Brackets, terminals and connections fit perfectly. Resistance units of original construction are supplied so should new ones ever be required, those supplied by each coilmaker are interchangeable with these.

Coil case is fiber and is heat and waterproof. It is not affected by moisture or heat of the engine. This construction adds considerable to the life of the coil. Each coil is carefully tested under high pressure. Guaranteed free from defects in material and workmanship. Guarantee also covers at least one year's service on the car. Shipping weight, 2¼ pounds.

Article Number	Make and Model of Car	Ignition System	Each
61 C 7146	Allen 1914 to 1919. All models	Conn	$5.65
61 C 7120	Briscoe 1916. Model 8-38	Remy	5.95
61 C 7146	Briscoe 1916 to 1919. Models 4-24 and 4-38	Conn	5.65
61 C 7107	Briscoe 1920–21. Models 4-34	Conn	5.65
61 C 7138	Buick 1914 to 15. All models	Delco	5.65
61 C 7134	Buick 1916 to 1921. All models	Delco	6.40
61 C 7108	Buick 1922. All 4 and 6 Cyl.	Delco	5.95
61 C 7138	Cadillac 1912 to 1921. All models	Delco	5.65
61 C 7120	Chalmers 1916 to 1921. Models 35-A, 35-B, 35-C	Remy	5.95
61 C 7124	Chevrolet 490, 1918-19-20-21.	Remy	5.95
61 C 7120	Chevrolet 1919-20-21. Models D-4, D-5, F, B	Remy	5.95
61 C 7136	Dodge 1917-18. All models	Delco	6.85
61 C 7101	Dodge 1919-20-21 All models.	Northeast	6.20
61 C 7107	Dort. Late 1919-20-21. All models	Conn	5.65
61 C 7120	Elgin 1917-18 and early 1919. Model 17-H	Remy	5.95
61 C 7148	Elgin. Late 1919-20-21. Models H and K	Wagner	6.35
61 C 7138	Essex 1918 to 1921. All models	Delco	5.65
61 C 7120	Grant 1917-18-19. K and G.	Remy	5.95
61 C 7144	Grant 1920-21. H and X	Atwater K.	4.60
61 C 7138	Hudson 1912 to 1921. All models	Delco	5.65

Article Number	Make and Model of Car	Ignition System	Each
61 C 7120	Haynes 1916 to 1919. Models 34,35, 36, 37, 38, 39, 44, 45,46	Remy	$5.95
61 C 7144	Hupp 1918-19-20-21. Mod. R.	Atwater K.	4.60
61 C 7148	Nash 1920-21. All models	Wagner	6.35
61 C 7102	Oakland 1918-19-20-21. Models 34-B and 34-C	Remy	5.95
61 C 7103	Maxwell 1917 to 1920. Mod. 25	Atwater K.	4.60
61 C 7144	Maxwell 1921-22. All models.	Atwater K.	4.60
61 C 7138	Packard 1919-20-21. All	Delco	5.65
61 C 7146	Overland. All 1916-17-18	Conn	5.65
61 C 7107	Overland 1919-20-21. All	Conn	5.65
61 C 7121	Studebaker 1920-21 Models EH, EG and EJ	Wagner	6.35
61 C 7144	Velie 1920-1921. Models 34, 48	Atwater K	4.60
61 C 7146	Willys-Knight 1920-21. Model 20	Conn	5.65

Coils for Other Cars

We can furnish quality Replacement Coils for almost any make of car not shown in above listing. Specify make, year, model of your car and name of ignition system. Allow $6.45 and transportation charges when ordering. Shipping weight, each, 2¼ pounds.

261 C 7100—Each **$6.45**

Shipped from Factory in Chicago

De Luxe Storage Batteries For Lighting and Ignition on Autos, Trucks and Tractors Without Starters

Built of the highest grade materials, these Batteries will stand up well though given the extremely hard usage required on tractors and trucks. Excellent equipment for cars not fitted with starters, also the right type for stationary gas engines. The same care is used in selecting materials and building the different parts of these batteries as is taken in making our De Luxe Starting Batteries. The terminals have an extra washer beneath the seal on top which prevents the acid from getting out, thus stopping corrosion. The clean contact assured by this construction allows the current a free flow that gives a hot, fat spark for ignition and strong bright lights. The terminals are solidly attached so there is no possibility of loose connections. **Size shown is total over all;** 6-volt, 60 ampere hours. Length, 7⁵⁄₁₆ inches; width, 6⅞ inches; height, 9¾ inches. Shipping weight, 30 pounds.

261 C 3846 **$11.95**

We save you Money on Auto Oils—see Page 565

Hot Spark Intensifiers

Make Old Spark Plugs Fire Every Time Just Like New

28¢

They often save many times their small cost in helping locate ignition troubles. Just raise the hood and watch the sparks in the glass cylinders. Hundreds of tests have proved that this wonderful little device with its adjustable gap actually makes spark plugs which are missing and would not fire at the points on account of soot, carbon or similar troubles, fire every time just as they did when new. They strengthen the spark so it burns through carbon. Plug not included. Shipping weight, each, 2 ounces.

61 C 7116—Each.................$ .28
61 C 7117—Set of 4.................1.10
61 C 7118—Set of 6.................1.60

Riverside GIANT Spark Plugs

With the Famous "775" Porcelains

49¢

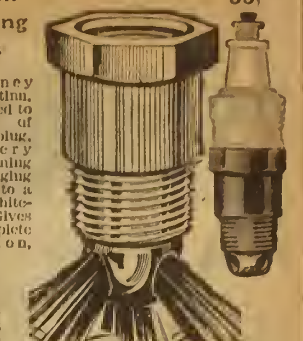
A great big, sturdy plug that will give years of service. The heavy body is turned from solid bar hexagon steel, scientifically treated and copper plated. The stone colored porcelain is especially selected. Electrode and sparking points made of high resistance, specially treated alloy. A heavy shoulder or ledge on the porcelain rests on a copper gasket in the shell, which in turn is held down and made gas-tight by an adjustable locking nut.

Terminal takes either the regular open end, or round, slip-on connection. Owing to their double point construction, Riverside Giants give remarkably good service in motors that "throw" oil. Shipping weight, each, 8 ounces.

61 C 9015—½-inch for Fords and other cars. Each.....49¢
61 C 9016—⅞-inch size. Each.....49¢
61 C 9017—⅞-inch size. Extension type for all Buick, all Chevrolet 490, all Oakland, all Oldsmobile, all Nash. One-piece type. Each.....49¢

Triumph Hot Firing Tubes

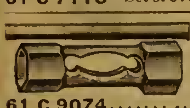
53¢



This money saving invention, when attached to the bottom of your spark plug, makes every spark a flaming torch; changing tiny sparks to a spreading white-hot flame. Gives more complete combustion, at every explosion, which aids in developing more power at every stroke of the piston. Quicker pickup. The hot point shields plugs from oil—the result is clean spark plugs. Order Hot Firing Tubes same as your spark plugs. Be sure to state name of car and size of your spark plug when ordering. Shipping weight, each, 4 ounces.

61 C 9059—½-inch size. Each.........53¢
61 C 9060—⅞-inch size. Each.........53¢
61 C 9082—Special for Fords.........53¢

Spark Plug Wrench



Fits nearly all standard spark plugs. Malleable iron. Length, 4¼ inches. Shipping weight, 12 oz.

61 C 9074.....................13¢

Bethlehem Spark Plugs

Bethlehem ⅞-Inch Spark Plug

69¢

Has a large hexagon shoulder. Type used on such cars as Cadillac, Hudson, Paige, Peerless, Chalmers, Hupp, Lexington, Stutz and many others using a ⅞-inch plug. Extra heavy porcelains. Shipping weight, each, 5 ounces.

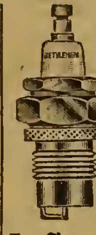
61 C 9090—⅞ in. Each.69¢

Bethlehem Special for All Reo Cars and Trucks

69¢

Extension type with small hexagon shoulder, designed especially for Reo cars and trucks. Shipping weight, each, 5 ounces.

61 C 9089—½ inch. Each......69¢



For Chevrolet and Buick

Special design that fits all models of Buicks and Chevrolets. Supplied with thumb nut. Shipping wt., each, 5 oz.

61 C 9088 ⅞-inch extension. Ea..69¢

AC Titan Extension Spark Plug

67¢

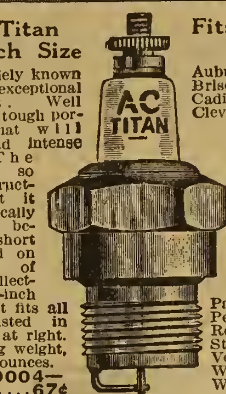
The motors on Buicks, Chevrolets and Reos are so designed that they require this style extension type plug. Shipping weight, each, 6 ounces.

61 C 9025—⅞-inch extension type. Regular equipment on Buick, Chevrolet 490, 1919-20-21-22. Each.....67¢

61 C 9036—½-inch extension type for all Reo cars and trucks, 1919-20-21-22. Ea. 67¢

Famous A.C. Spark Plugs

AC Titan ⅞-Inch Size



A widely known plug of exceptional merit. Well made of tough porcelain that will withstand intense heat. The plug is so constructed that it practically cannot become short circuited on account of soot collecting; ⅞-inch size that fits all cars listed in column at right. Shipping weight, each, 5 ounces.

61 C 9004—Each......67¢

Fits All Cars Below

Auburn, Grant
Briscoe, Hudson
Cadillac, Hupp
Cleveland
Jordan
Cole, King
Dort
Elcar
Elgin
Liberty
Moline-Knight
Moon
National
Oldsmobile
Packard
Paige
Paterson
Peerless
Roamer
Stutz
Velie
Westcott
Willys-Knight

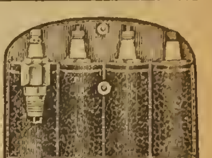
AC Titan Extension Spark Plug

For overhead valve cars listed below. Shipping weight 5 oz.

61 C 9032—⅞-inch, long. Regular equipment on Oakland, Oldsmobile 6-cylinder, Premier, and all Nash up to 1920...........67¢

61 C 9034—⅞-inch, extra long. Regular equipment on all Nash 1920-21-22.67¢

4-in-1 Spark Plug



Set of 4 open end type plugs in a neat enameled fabric compartment case. Shipping weight, per set, 1 pound.

61 C 9051—½-inch Set of 4.........$1.05
61 C 9052—⅞-inch Set of 4.........$1.05

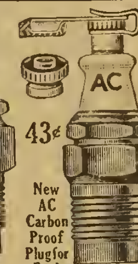
Specials for Fords

Bethlehem Spark Plug for Fords

49¢

Extension type. Extra heavy porcelain and special electrode. Two-piece cleanable type. Shipping weight, each, 5 ounces.

61 C 9879—Each......49¢



New AC Carbon Proof Plug for Fords

43¢

Has a special ribbed porcelain, with saw tooth edges that aid in burning off and preventing carbon deposits. Shipping wt., 5 oz.

61 C 2117—½ inch...43¢

Champion X Plug for Fords

43¢

Same as the Champion X's that were originally in your Ford. Shipping wt., each, 4 oz.

61 C 2114—½ inch....43¢
61 C 2115—Porcelain only. Each......27¢

67¢ AC Titan Long Body Spark Plug

Is particularly suited to the cars below on which it is regular equipment. Chandler, Stevens-Duryea, White Trucks, Bessemer Trucks, Hahn Trucks, Moreland Trucks, Robinson Fire Trucks, Schwartz Trucks, Titan Trucks, Owens Light and Power Plant and Northlite Lighting Plants. Shipping weight, each, 6 ounces.

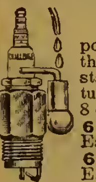
61 C 9688—⅞-inch size. Each......67¢

Special AC Titan for Dodge Cars

This plug has long body, especially shaped for Dodge motors. Regular factory equipment. Ship. wt., each, 5 ounces.

61 C 9028—⅞-inch size. Each.........67¢

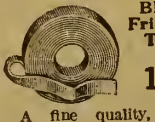
Challenge Priming Spark Plug



A few drops of gasoline poured into the petcock of this plug, and your motor starts on the first quarter turn. Shipping weight, each, 8 ounces.

61 C 9019—½-inch. Each..............79¢
61 C 9021—⅞-inch. Each..............79¢

Black Friction Tape



12¢

A fine quality, fresh holdtight tape for insulating wire, etc.; 4-ounce roll, ¾ inch wide. Shipping weight, per roll, 6 oz.

61 C 1488—Roll..12¢

Westinghouse Spark C Ignition Tester

$1.15

Tells at a glance the condition of ignition. Locates trouble quicker than an expert using old methods. Shows when plug is firing, when points are correct; when porcelain or wiring is broken—when there is trouble in the coils, magueto or timer. Nothing to wear out. Shipping weight, 8 ounces.

61 C 3588.....................$1.15

Speedway Long Distance Spark Plug

The reliable porcelain plug at an exceptionally low price. Shipping weight, each, 5 ounces.

61 C 9070—½-inch. Each....27¢
61 C 9071—⅞-inch. Each....27¢

Splitdorf Spark Plug

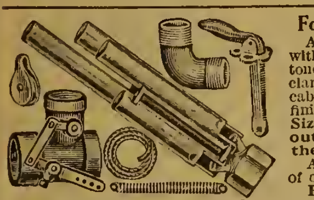
Guaranteed 3 Years

63¢

Has a mica core; protected by a porcelain sleeve. Shipping weight, each, 6 oz.

61 C 9023 — ½ inch for Fords and other cars using this size. Each.................63¢
61 C 9024—⅞ inch..69¢

Four-Tone Melody Horn



A high class exhaust horn with four full, deep, smooth tones. Complete with pedal, clamp-on valve and wire cable. Made of brass, nickel finish. Length, 12 inches. Sizes shown are for the outside measurement of the exhaust pipe.

Average shipping weight of outfit, 5 pounds.

For Cars 20 to 35 H. P.

61 C 3386—1½-inch size. Complete outfit...........$5.35
61 C 3387—1⅝-inch size. Complete outfit........... 5.35
61 C 3388—1¾-inch size. Complete outfit........... 5.35
61 C 3389—2 -inch size. Complete outfit........... 5.35
61 C 3390—2¼-inch size. Complete outfit........... 5.35

Warning Signals

Loud Tone Auto Whistle

$1.70

Excellently constructed from aluminum and bronze. Fits in ⅛-inch priming cup opening or can be used in connection with spark plug placed in special attachment. Wonderful aid in preventing accidents. s of self-cleaning construction. Furnished complete with cord. Shipping weight, 1 pound.

61 C 3444—To fit ⅛-inch priming cup hole.....................$1.70
61 C 3445—Whistle with attachment for ½-inch spark plug.....................$2.05
61 C 3446—Whistle with attachment for ⅞-inch plug.....................$2.05

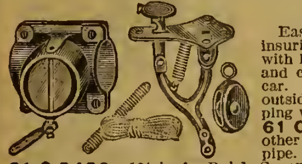
Motor Driven Electric Horn

A small electric motor rotates against the horn diaphragm so the quality of the tone can be varied by a simple adjustment. Gives loud, clear warning. Operates from any 6-volt or 12-volt storage battery or from dry cells. Little power required. Furnished in all black finish. Shipping weight, 5 pounds.

$2.98

61 C 3396—Length 8½ inches, for 6-volt.....................$2.98
61 C 3397—Length 11 inches, for 12-volt.....................$3.35

Cutout Outfit



Easily installed; 4-bolt type, insuring perfect fit. Complete with locking pedal, pulley, spring and cable ready for attaching to car. Fits cars with pipe having outside diameter shown. Shipping weight, of outfit, 3 pounds.

61 C 3438—For Maxwell and other cars with 1⅝-inch exhaust pipe. Complete outfit.......75¢
61 C 3439—1¾-in. for Buick, Saxon, Oldsmobile and other cars. Complete outfit.......80¢
61 C 3440—2-inch for Chevrolet Baby Grand, Dodge, Studebaker and Chevrolet 490. Complete outfit.......90¢

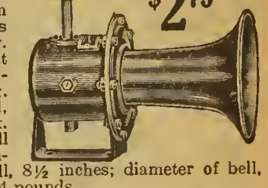
Genuine Liberty Siren

$1.60

Liberty siren penetrates above noise, and sounds its melodious signal in a way that commands attention. Attaches to the exhaust manifold. Operates by the simple pull of a cord attached to dash or steering column. Costs nothing to operate. Does not in any way interfere with the mechanical operation of your car. Has ¾-inch standard pipe thread. Full instructions for attaching included. Shipping weight, 1 pound.

61 C 3436.................$1.60

Loud Toned Hand Horn



$2.75

You are sure it will work in all emergencies. Mechanism is simple and operates easily. Special bracket fits either right or left side of car and is arranged for easy attaching. Body and arm of pressed steel, beautifully enameled black. So strongly made that it will stand up under hard, continuous service. Length, over all, 8½ inches; diameter of bell, 4¾ inches. Shipping weight, 4 pounds.

61 C 3376.....................$2.75

Lunch Kit with Vacuum Bottle

$1.49

Handy for All

A lunch kit which should be in every home. It will come in handy numberless times. If you are going on a trip you won't have to fuss with baskets or bottles, and the lunch will taste better. Consists of a one-pint vacuum bottle in a light, durable, enameled metal carrying case; two clasps; hinged cover. Length, 10½ inches; height, 7 inches; width, 4½ inches. Lower part serves as a lunch box and is large enough to hold food for two persons. Top of bottle serves as a drinking cup. The bottle is unusually convenient for mechanics, farmers and school children, because in it may be carried the hot drinks which make the packed lunch so much more enjoyable. Shipping weight of outfit, 4½ pounds.

61 C 6639—Complete outfit..........$1.49
61 C 6578—Kit only, without bottle..... .89

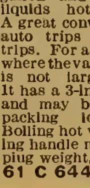
Best Quality Nickel Plated Vacuum Bottle

A model especially desirable around the home on account of its beautiful finish. In the sick room a vacuum bottle is a wonderful help. Extra strong metal case, heavily nickel plated. Can be taken apart and cleaned or a new inner bottle inserted in less than a minute. Neck protrudes above metal casing, preventing contents from coming in contact with metal case when pouring. Screw top serves as drinking cup. Shipping weights, 2¼ and 3¼ pounds.

61 C 6604—Pint size.........$2.45
61 C 6605—Quart size........ 3.35

Don't Go on a Trip Without a Vacuum Bottle and a Package Carrier

Hot or Cold Jug



An earthenware thermo which holds one gallon and will keep liquids hot or cold. A great convenience on auto trips or fishing trips. For any occasion where the vacuum bottle is not large enough. It has a 3-inch opening and may be used for packing ice cream. Boiling hot water will not break it. Swing-ing handle makes it handy to carry. Shipping weight, 10 pounds.

61 C 6449.................$2.95

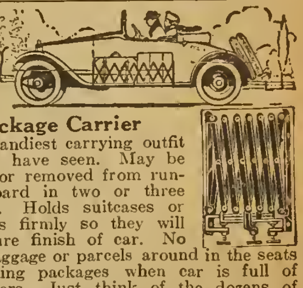
Our Popular Enameled Case Vacuum Bottle

A thoroughly reliable vacuum bottle which will serve you as faithfully as the high priced models. The principal difference is in the case which encloses the inner bottle. Keeps liquid hot for 24 hours or cold for two days. This bottle is popular among motorists, hunters, fishermen, tourists and others who are not especially particular regarding the finish of the case. It is truly a service model. The case is handsomely enameled, has aluminum shoulder and cup. Shipping weights: Pint size, 1¾ pounds; quart size, 2¾ pounds.

61 C 6620—Pint size............$1.20
61 C 6621—Quart size.......... 1.95

Package Carrier

$1.45

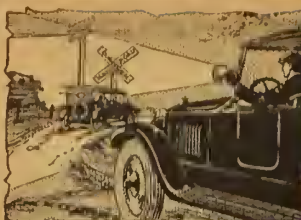


The handiest carrying outfit we ever have seen. May be put on or removed from running board in two or three minutes. Holds suitcases or packages firmly so they will not injure finish of car. No more baggage or parcels around in the seats or holding packages when car is full of passengers. Just think of the dozens of times this simple, compact outfit will serve you. Farmers will find use for it on practically every trip to town. Adjustable to any length from 10 to 50 inches, so you may carry all usual size packages. Three thumb-screws hold it securely to running board. Size folded, 10½ by 19 by 4 inches. Shipping weight, 13½ pounds.

61 C 6468.....................$1.45

Supplies for Fords are shown on Pages 579 to 585

Spotlights and Auto Lamps



Standard Electric Spotlight

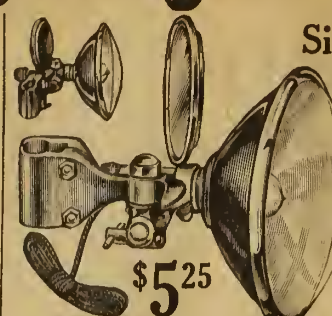
$2.95

This is a serviceable low price Spotlight. Attaches to windshield by a bracket with a universal joint that allows turning in any direction. The reflector is of a special shape and of high finish, throwing a long parallel beam that lights the road for a great distance. Convex type lens.

The bulb used is a 21 candlepower, nitrogen 6-8, 12-16 or 18-24 volt and throws a very powerful light. An off-and-on connector is provided so that light can be turned on or off at will. Front diameter of lamp, 6¼ inches. Finished in black with nickel plated rim. Complete with wire. Shipping weight, 3 pounds

61 C 6740—For 6-8-volt battery $2.95
61 C 6741—For 12-16-volt battery 3.00
61 C 6742—For Ford magneto, 18-24 volt bulb 3.10

Silver Ray Spotlight



$5.25

Rear View Mirror for Silver Ray
Attaches direct to handle. Diameter, 3½ inches. Shipping weight, ½ pound.
61 C 6727—Mirror only.......... 89¢

An innovation in Spotlamp construction which throws a powerful, penetrating light. Heavy convex lens which centers the strong, powerful beam of light just where you want it. A three-point bracket with wide range adjustable motion enables you to lower the light for watching the road or swing it sideways and upwards. Easily detached by a turn of cross bolt with the fingers, making it immediately accessible to any part of the car. Has universal bracket to fit all windshields. Finish is black with nickel rim and bracket. Works off any 6 or 12-volt battery or Ford magneto. Complete with wire and bulb. We can furnish at a small additional cost a neat rear view mirror which attaches to lamp. Ship. wt., 3 lbs.

61 C 6724—With 6-8 volt bulb. Without mirror $5.25
61 C 6725—With 12-16 volt bulb. Without mirror $5.35
61 C 6726—With 18-24 volt bulb for Ford magneto. Without mirror $5.45

Stop Light Safety Signal

An automatic signal device that warns the drivers back of you. The switch is connected to the footbrake or clutch pedal so when you stop it immediately flashes a strong, bright light that can be seen plainly day or night. No need of putting out your hand. This is really the only practical way of warning during the cold weather or when it is raining or snowing, since side curtains or windows usually make it impossible to reach out. The light is 4¼ inches in diameter and is fitted with a 6-8 or 12-16 volt, 21 single contact bulb. The switch is an improved waterproof type. A special ruby lens is securely fastened so it cannot turn. Shipping weight, complete, 2 pounds.

61 C 6781—Complete, 6-volt type.......... $1.00
61 C 6783—Complete, 12-volt type.......... 1.00

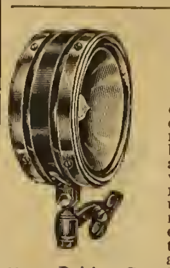
Anderson Auto Reelite and Trouble Lamp

$7.85

The latest type powerful Spotlight and Trouble Lamp combined. Patented reel permits lamp to be removed instantly from the windshield so it can be taken to any part of the car, even as far as the spare tire on rear. If you have a puncture or engine trouble, bring the spotlight around and find out at once just what is wrong. No fussing with matches that burn out or a lantern that will not burn at all. Spotlight is popular size and an attractive model. Black enamel with nickel trim. One of the most useful accessories that you can add to your equipment. There are probably few nights when you will not find use for it either on the road or in the garage. We have sold a great many of these Anderson Auto Reelites, and our customers have been delighted with the service they have given at all times. Reel and about 12 feet of cord included. Shipping weight, 5 pounds.

61 C 6735—With 6-8-volt bulb............ $7.85
61 C 6736—With 12-16 volt bulb.......... 7.85

New Drum Shaped Electric Head Lamp

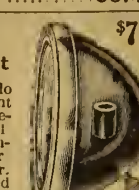


Handsome drum shaped Head Lamps recently designed to meet the need for lamps that would be extremely attractive and at the same time very effective. Many manufacturers are now using this design as regular equipment. Special brackets included so these lamps can be attached to the following cars: Buick, Chandler, Chevrolet, Dort, Durant, Essex, Hudson, Hupmobile, Liberty, Moon, Nash, Oakland, Overland, Paige, Peerless, Saxon and Westcott. Body of lamp is black. Both front and rear rims are highly nickel plated. Bulbs are 21 C. P. 6 volt. Bulb can be adjusted from rear of lamp. Shipping weight, per pair, 15 pounds.

61 C 6751—Per pair........... $8.45

Torpedo Type Electric Headlight

$7.50



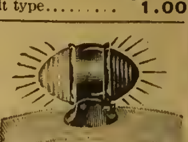
A distinctive torpedo type Headlight of excellent design and finish. One-piece steel body. Full roll door, hingeless. Clear convex glass. Heavy silver plated parabolic reflector. Special adjustable patented focusing device. Dust and water-proof. Two-point connectors and sockets: 21 candlepower, 6-volt bulbs with two-point connectors. Body finished in black; door in nickel. Front diameter, 10 inches; depth, 6 inches; bracket centers, 8 inches. Ship. weight, per pair, 12 lbs.

61 C 6749—Per pair............ $7.50

The above lamp with double or dimmer bulbs. There are two sets of bulbs in each lamp. A large 21 candlepower bulb and a small 4 candlepower dimmer bulb. Each set of lights controlled separately and independent of the other. Double bulb headlights. Shipping weight, per pair, 12 pounds.

61 C 6750—Per pair............. $8.50

Parking Lamp

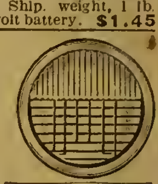


Instead of using your two headlights and the tail light while standing at night, you need only this one lamp. Placed on the left rear fender it gives a warning red light backward and a white light forward. Body of lamp is steel, black enameled. Total height of lamp is 3⅞ inches; width, 2½ inches. Switch in base. Rubber bushing protects wires; 6-volt 2 candlepower bulb. Ship. weight, 1 lb.

61 C 6738—For all cars using 6-volt battery. $1.45

McKee Lens

This well known Headlight Lens eliminates all glare. Furnishes good driving light at side of road as well as lighting the road for 600 feet ahead. State diameter of your old glass when ordering.



Article Number	Diam. Over All of Glass Now Used	Glass Diam. Between Door Rim	Ship. Wt. Pair	Per Pair
61 C 6850	8⅛ in.	7 in.	2¼ lbs.	$1.59
61 C 6851	8¼ in.	7 in.	2¼ lbs.	1.59
61 C 6852	8⅜ in.	7¼ in.	2¼ lbs.	1.59
61 C 6853	8½ in.	7½ in.	2½ lbs.	1.59
61 C 6854	8¾ in.	7½ in.	2½ lbs.	1.89
61 C 6855	8¾ in.	8 in.	2½ lbs.	1.89
61 C 6856	9 in.	8½ in.	3¼ lbs.	1.89
61 C 6857	9¼ in.	8½ in.	3¼ lbs.	1.89
61 C 6858	9½ in.	8¼ in.	3¼ lbs.	1.89
61 C 6859	9½ in.	8½ in.	3¼ lbs.	1.89

Push and Pull Switch

This is a standard panel push button switch that is neat, simple, easily installed. Can be used for headlights, tail and dash lamps, or in any combination desired.

Spring contacts; wire connections are at the back. Black finish. Shipping weight, per switch, 2 ounces.

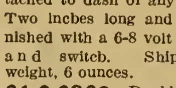
61 C 7058—One-gang switch........22¢
61 C 7059—Two-gang switch........43¢
61 C 7060—Three-gang switch......65¢

Spotlight Bracket for Closed Cars

Attaches to the body of sedan or coupe. Spotlight or mirror clamps to the bracket and does not interfere with operation of the windshield. Finished in black enamel. Shipping weight, 8 ounces.

61 C 6719......................... 29¢

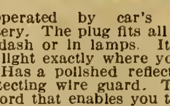
Electric Dash Lamp



Nickel plated. Easily attached to dash of any car. Two inches long and furnished with a 6-8 volt bulb and switch. Shipping weight, 6 ounces.

61 C 6860—Double contact for metal dash. 57¢
61 C 6861—Single contact for metal dash. 57¢
61 C 6904—Double contact for wood dash. 53¢

Safety Inspection Lamp



Operated by car's storage battery. The plug fits all sockets on dash or in lamps. It brings the light exactly where you want it. Has a polished reflector and protecting wire guard. Ten feet of cord that enables you to reach all parts of the car; 6-8 volt bulb. Shipping weight, 1 pound.

61 C 6901—With double contact plug...... $1.30
61 C 6902—With single contact plug...... 1.30

Tail Lamp

Double and Single Contact

53¢

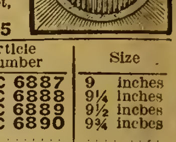
Has ruby semaphore lens; white sidelight to illuminate number; cut-out plug; 4 candlepower 6-volt bulb. Furnished with combination prop; opening fits round or flat iron. Black finish. Shipping weight, 12 ounces.

61 C 6769—Double contact....... 53¢
61 C 6723—Single contact........ 53¢

Natural Vision Lens

Bottom half bends light rays downward, completely flooding road from side to side with strong light that plainly shows up everything ahead for a long distance. Top half is of the diffusing type, entirely breaking up the glare, and therefore not interfering with motorists coming toward you. Shipping weight, per pair, 2½ pounds.

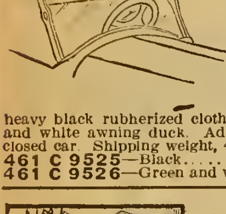
Per pair, all sizes......... $1.05



Article Number	Size	Article Number	Size
61 C 6882	8 inches	61 C 6887	9 inches
61 C 6883	8¼ inches	61 C 6888	9¼ inches
61 C 6884	8½ inches	61 C 6889	9½ inches
61 C 6885	8⅜ inches	61 C 6890	9¾ inches
61 C 6886	8¾ inches		

Ford Owners: Head Lamps, Lamp Parts and Lenses for Fords are shown on Page 583

Auto Visor



$1.69

Best kind of protection from sun, headlight glare or rain. Attaches to the top and can be folded out of the way when top is down. A steel frame, braced in the center, makes the visor rigid. It will not sag, buckle or rattle. Made either in heavy black rubberized cloth or double thickness green and white awning duck. Adjustable to fit any open or closed car. Shipping weight, 4½ pounds.

461 C 9525—Black.......................$1.69
461 C 9526—Green and white awning duck. 1.69

Aluminum Step Plates

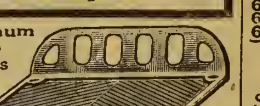
$1.69 Each

Very popular, as they protect the running board and prevent the shoes striking against the finish on the body of your car. This finest style is a great improvement over the usual kinds, as it has a special scraper arrangement that is used as a cleaner for mud and slush. Besides the scraper these plates have high rear guard and raised sides. The outside measurement is about 10 by 9 inches. Screws furnished. Shipping weight, each, 2 pounds.

61 C 3548—Each.................. $1.69
61 C 3556—Per pair.............. 3.30

Aluminum Step Plates

90¢ Each

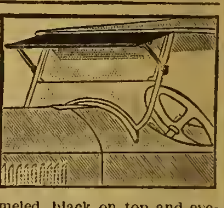


These are plain, neat aluminum plates with a high, protecting guard at the back. They are very attractive and will prove helpful in preventing wear on the running board. Screws included. Size, about 9½ by 7¼ inches. Shipping weight, each, 1¼ pounds.

61 C 3547—Each......... $ .90
61 C 3557—Per pair...... 1.75

Regal Sun and Storm Shield

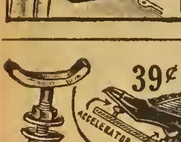
$3.25



Shades your eyes from the bright sun or glare of headlights and street lights. It keeps the upper part of your windshield much clearer and more transparent during rain or snow storms. Made of high grade steel reinforced. Beautifully enameled, black on top and eye-resting, non-reflecting green underneath. The Regal is adjustable and will fit all cars, open or closed, except those with V-shaped windshields. Ship. weight, 8½ lbs.

461 C 9569—For all cars................ $3.25

Heel Mat

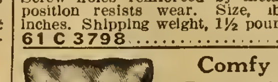


14¢

Made of special rubber composition. Heavy ribs prevent foot slipping. More comfortable for the foot and prevents wear of floor board. Size, 5¾ by 3⅞ inches. Shipping weight, 8 ounces.

61 C 3799.......... 14¢

Running Board Mat



Made of heavy composition rubber. Aids in keeping floor of car clean. Prevents slipping. Screw holes reinforced by metal. Special composition resists wear. Size, about 8 by 11¼ inches. Shipping weight, 1½ pounds.

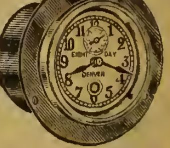
61 C 3798.......................... 33¢

Cocoa Mat

Closely woven and well bound. Fits any car. Two special spring clamps (woven in) hold it on securely. Gives foothold when getting on car, and serves to keep car clean. Size, 9 by 14 inches. Shipping weight, 1½ pounds.

61 C 3755.................. 89¢

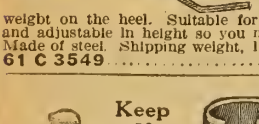
Denver 8-Day Cowl Clock



A splendid cowl dash model of very neat appearance, as it fits flush with the surface of the dash. Runs eight days with one winding. Has large, clear, easily read figures. Furnished in highly polished nickel finish only. Height from rim to rim, 3½ inches; diameter of dial, 2½ inches; depth, 2¾ inches. Shipping weight, 2½ pounds.

61 C 3551.............................. $5.45

Adjustable Footrest

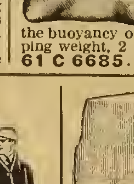


39¢

Takes strain off of foot and leg muscles, as the foot pivots freely at the center instead of throwing weight on the heel. Suitable for all style accelerators and adjustable in height so you may fit it for comfort. Made of steel. Shipping weight, 12 ounces.

61 C 3549................................ 39¢

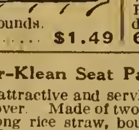
Comfy Cushion



For automobiles, motorboats, porches, camps and outings. Made of high grade imitation Spanish leather. Filled with vegetable fiber, soft and downy. Adds to the pleasure of auto riding. Also serves as a life preserver, having four times the buoyancy of cork. Size, 15 by 15 inches. Shipping weight, 2 pounds.

61 C 6685.................... $1.30

Backrest

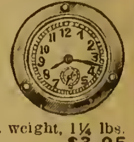


Wedge shaped. Fits the back. Imitation leather with a filler that will retain its resiliency and lightness. Welt seam binding. Size, about 16 by 16 inches. Shipping weight, 3¼ pounds.

61 C 6675.............. $1.49

Frisco Cowl Clock

$3.95



A fine appearing, flush fitting cowl clock with reliable one-day movement. Built to withstand jars and vibrations. Slight turn of special catch loosens clock for winding and setting. Nickel finish. Height, over all, 3½ inches; diameter of dial, 2½ inches; depth, 2 inches. Ship. weight, 1¼ lbs.

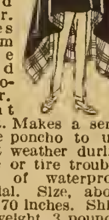
61 C 3554.......................... $3.95

Keep—U—Clean Jumpers

Save their cost in cleaning bills—no more grease spots when changing tires or working around engine. Can be snapped on or taken off in four seconds. Held in place by covered flexible steel bands. Not an overall. Will not wrinkle clothes. Made of durable material that will last the average motorist for years. Fit anyone. Shipping weight, 1 pound.

61 C 3395............. $1.15

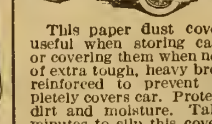
Combination Auto Robe and Poncho



Can be used as a raincoat or a hood cover. Makes a warm robe and protector. Light weight. Makes a serviceable poncho to use in wet weather during engine or tire trouble. Made of waterproof material. Size, about 50 by 70 inches. Shipping weight, 3 pounds.

61 C 6663. $2.79

Auto Dust Cover



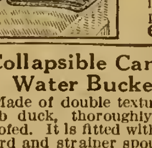
$1.30

This paper dust cover is especially useful when storing cars in winter or covering them when not in use. Made of extra tough, heavy brown fiber paper reinforced to prevent tearing. Completely covers car. Protects it from dust, dirt and moisture. Takes only a few minutes to slip this cover over the car. The great difference in the appearance of the finish makes this a splendid investment. Shipping weight, 5 pounds.

61 C 9504—For Ford touring cars $1.30
61 C 9505—For 5-passenger cars..................... 1.65
61 C 9506—For 7-passenger cars..................... 1.95

Evr-Klean Seat Pad

59¢

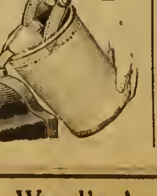


An attractive and serviceable seat cover. Made of two pieces of strong rice straw, bound on the edges and securely held together with heavy strips of khaki colored cloth. Protects clothes and cushions. Fits all cars. Each half is 17 by 17 inches. Shipping weight, 1¼ pounds.

61 C 6690.......... 59¢

Collapsible Canvas Water Bucket

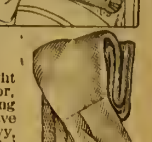
$1.15



Made of double texture olive drab duck, thoroughly waterproofed. It is fitted with splash guard and strainer spout. Has nonrusting metal ring and all seams are double sewed with strong cotton threads; 8-inch diameter; 12 inches deep. Capacity, 9 quarts. Shipping weight, 1¼ pounds.

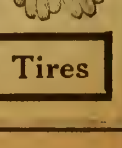
61 C 9876........ $1.15

"Save-the-Sleeves" Gloves Keep You Clean



49¢ A Pair

They are large enough to slip over your coat sleeves, completely protecting arms as well as hands and cuffs. Just right for working around motor, changing tires, or greasing differentials. Quickly save their cost. Made of heavy, carefully sewed canvas. Total length, about 25 inches. Shipping weight of pair, 10 ounces.



61 C 9679—Per pair 49¢

Use Riverside Tires

You always save money when you buy Ward's Auto Supplies

Cold Weather Necessities

$4.45

Complete Radiator and Hood Cover

Covors radiator and entiro hood. Made of waterproof enameled fabric, lined with a good quality heat retaining material. The radiator cover is the same as that described at the right, and the outfit includes all the necessary straps and clips to insure a secure fit. Carried in stock for Chevrolet 490 and Dodge cars only. Average shipping weight, 7 pounds.

61 C 3768—For Chevrolet 490, 1915-22...... **$4.45**

61 C 3770—For Dodge cars, 1917-22....... **$4.45**

Radiator and Hood Covers—Made to Order

We will also make to order, of materials specified below, complete Radiator and Hood Covers for any car. State make, year and model of car. Allow extra for postage. Will require 5 to 10 days. Shipping weight, about 8 pounds.

261 C 3658—Dull finish drill, kersey lined........................ **$5.25**
261 C 3659—Imitation leather, kersey lined........................ **6.40**

Shipped from Factory in Chicago

Radiator Cover — Needed on Every Water Cooled Car

Keeps the water in radiator warm, also prevents the oil from stiffening. Made of waterproof enameled fabric lined with good quality heat retaining material. Equipped with strong straps and metal clips, insuring a secure fit. Lower section of curtain rolls up, upper section rolls down and overlaps lower part at center. This affords whole or partial protection as may be desired. Carried in stock for Chevrolet 490 and Dodge cars only. For all other cars they are made to order (see below). Average shipping weight, 3 pounds.

61 C 3715—For Chevrolet 490, 1915-22 .... **$2.20**
61 C 3718—For Dodge cars, 1915-22.............. **2.20**

Radiator Covers for All Cars—Made to Order

We will make to order Radiator Covers for any car, using the materials specified below. These will be shipped direct from factory in Chicago and will require from 5 to 10 days. When ordering be sure to state make, year and model of car. Allow extra for postage. Shipping weight, about 4 pounds.

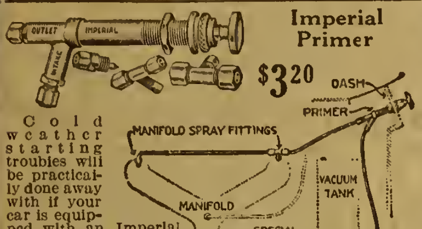
261 C 3747—Dull finish drill, kersey lined......... **$2.40**
261 C 3761—Imitation leather, kersey lined....... **2.90**

Radiator Covers and Radiator and Hood Covers for Fords are shown on Page 579. Heaters for Fords are shown on Page 580.

$2.20

Imperial Primer

$3.20



Cold weather starting troubles will be practically done away with if your car is equipped with an Imperial Primer. One stroke of the primer within easy reach on the dash board sprays vaporized gasoline into the manifold. You can start without the fuss or delay usually experienced in winter motoring. No priming through petcocks; no standing in the snow or rain. Do not risk injury to your battery by grinding away for several minutes to start your motor when it is cold. This feature alone is worth many times the price of the outfit. Outfit consists of substantially made plunger pump, all necessary bolts, connections and tubing. Shipping weight, complete, 14 ounces.

61 C 3668—For all cars fitted with a vacuum tank. Complete outfit.............................. **$3.95**
61 C 3669—Special for Fords.............. **3.20**

Costs Nothing to Operate

Utility Exhaust Heater

For all gasoline cars. Keeps car heated at a comfortable temperature in the coldest weather, free of cost. A radiator and footrest combined. Utilizes hot gases from engine exhaust. Gas is passed through heater when in operation and escapes into air beneath the car. Temperature is regulated by a valve at side of the heater. Gives no obnoxious odors or gases. Quickly installed. Heavily nickeled, complete with necessary attachments. In ordering state outside diameter of exhaust pipe before it enters muffler. Shipping weight of complete outfit, about 14 pounds.

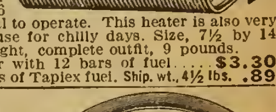
461 C 3540—Register type. Fits in floorboard. Has regulator. Size, 27 by 4½ inches. Complete outfit........................ **$15.65**
461 C 3651—Round type. Nickel finish. Size, 28½ by 2½ inches.............. **15.65**
461 C 3652—Utility Junior Heater for Ford, Maxwell and other small cars. Black finish. Size, 15 by 2½ inches. Round style. Shipping weight, 11 pounds **$7.45**

Electric Engine Warmer

Instead of fussing with stoves and draining water from radiator to keep the water from freezing over night, just put this heater under the hood with a blanket over the radiator, and in the morning the motor will be ready to start easily. Operates from any 110-volt current, alternating or direct, attaches to lamp socket. As there is no flame it is safe. Size, about 6¾ by 3¼ inches. About 10 feet of cord. Consumes about 2 amperes. Shipping weight, complete, 1½ pounds.

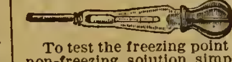
61 C 3663—Complete.......................... **$3.45**

Taplex Heater



A great improvement over old style charcoal heaters, as all you need is a match to light the bar of fuel—smokeless. One bar heats continually for 6 to 8 hours. Economical to operate. This heater is also very handy around the house for chilly days. Size, 7½ by 14 inches. Shipping weight, complete outfit, 9 pounds.

61 C 3664—Heater with 12 bars of fuel...... **$3.30**
61 C 3665—12 bars of Taplex fuel. Ship. wt., 4½ lbs. **.89**

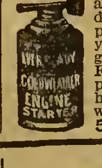


Freez-meter

To test the freezing point of your alcohol non-freezing solution simply take off the radiator cap, insert this handy Freez-meter syringe, press bulb and small marked float inside will register exact freezing point. No need of getting dirty draining solution from bottom of radiator as with old style instruments. Shipping weight, 10 ounces.

61 C 3685.......................... **45¢**

Auto Engine Priming Fluid — 38¢



For use in automobile, truck and tractor motors. Put a few drops of the mixture in your priming cups or primer, turn your motor over and away she goes. No trouble—no fuss. Free from ether, acetic or picric acid, gun cotton or any harmful substances. Shipping weight, per can, 2 pounds.

561 C 3662—8-oz. can. **38¢**

Johnson's Freeze Proof

$1.25

Prevents freezing in coldest weather. Does not evaporate. Absolutely harmless. One package protects Fords to 5° below zero. Large cars use two packages to protect to 5° below zero and three packages to protect to 25° below zero. Simply dissolve in water and pour into radiator. Shipping weight, 8½ pounds.

561 C 3657.....**$1.25**

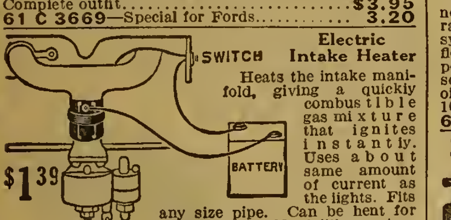
Alcohol Non-Freeze Solution

89¢

Has no chemical action on iron, copper or brass, and is safe to use. One can protects a 3-gallon radiator to 10° above zero. Directions printed on each label. Shipping weight, per can, 9 pounds.

561 C 3661—Gallon can .... **89¢**

Electric Intake Heater

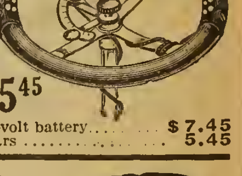


$1.39

Heats the intake manifold, giving a quickly combustible gas mixture that ignites instantly. Uses about same amount of current as the lights. Fits any size pipe. Can be bent for curved pipes. No drilling or tapping—simply clamp around pipe. Complete with wire and switch for attaching to battery. For single contact lighting systems only. Shipping weight, 8 ounces.

61 C 3670—For 6-volt battery.......... **$1.39**
61 C 3671—For 12-volt battery.......... **1.39**

Steer Warms



A pair of neat, black leather covered grips, length 5¼ inches, that lace onto steering rim in any position. Heated electrically from storage battery, magneto or dry cells. Made for all cars. Style for Fords connected to magneto and operated while engine runs. Shipping weight, 13 ounces.

$5.45

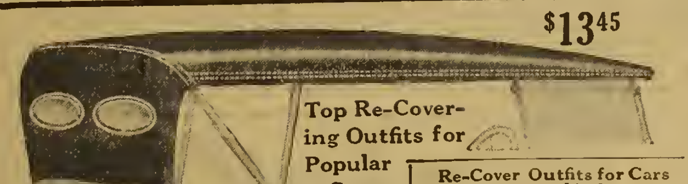
61 C 3654—For 6 or 12-volt battery........ **$7.45**
61 C 3655—For Ford cars **5.45**

Back Curtains For Popular Cars

Very attractive Replacement Curtains furnished in mohair type or imitation leather with two 6 by 12 oval beveled plate glass windows. Shipping weight, 5½ lbs.

Name and Model of Car	Imitation Leather Number	Imitation Leather Each	Mohair Type Number	Mohair Type Each
Buick D-45, 1916-17	....	.....	61 C 9620	$7.30
Buick E-45, 1918	....	.....	61 C 9621	7.30
Buick H-45, '19 Gypsy	61 C 9635	$9.45	....	....
Buick K-45, 1920 Gypsy Curtain	61 C 9635	9.45	....	....
Chevrolet 490, 1915-16-17	....	.....	61 C 9622	7.30
Chevrolet 490, 1918-1919 and 1920	61 C 9636	7.45	61 C 9623	7.30
Dodge 1915 to '19	61 C 9637	7.45	61 C 9624	7.30
Dodge 1920 Gypsy Curtain	61 C 9638	9.45	....	......
Maxwell 25, 1916-17	....	.....	61 C 9625	7.30
Maxwell 25, 1919-20	61 C 9639	7.45	....	......
Oakland 32, 1915	....	.....	61 C 9626	7.30
Oakland 32B, 1916	....	.....	61 C 9626	7.30
Oakland 34B, 1918-19 34C, 1920	61 C 9640	7.45	....	......
Overland 90, 1917-1918-1919	61 C 9641	7.45	61 C 9627	7.30
Overland A-4, 1920	61 C 9642	7.45	....	......

$13.45



Top Re-Covering Outfits for Popular Cars

If your top has become shabby in appearance, or worn and leaky, this Re-Cover Outfit will restore its neat appearance and give you a top as good as new. They are very good grade imitation leather or cotton mohair and we furnish them at about one-third the cost of a new top. Outfit consists of roof, rear curtain and all necessary tacks and bindings to put it on. Shipped ready to attach. Simply remove the tacks at the front and rear of the old top covering and back curtain and slip the new covering over the top bows and padding. Guaranteed to fit perfectly. We carry the Top Re-covers in stock for the cars listed below. Average shipping weight, complete, 12 pounds.

Re-Cover Outfits for Cars Not Listed Below

We can furnish either imitation leather or cotton mohair outfits for cars not listed below. Outfit has two beveled plate glass lights, and either black or tan lining—specify which you desire. Also be sure to give name, year and model of your car and serial numbers of body and engine if possible. Shipping weight, 2 pounds..

261 C 9643—Imitation leather...... **$17.85**
261 C 9644—Cotton mohair........ **19.85**

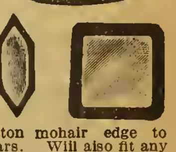
Shipped from Factory in Chicago

Name and Model of Car	High Quality Imitation Leather with Two Oval Beveled Plate Glass Lights — Number	Each	Mohair Type with Two Oval Beveled Plate Glass Lights — Number	Each
Buick D-35, 5 pass. 1917	....	......	61 C 9970	$14.65
Buick E-35, 5 pass. 1918	61 C 9825	$14.95	61 C 9971	14.65
Buick D-45, 5 pass. 1916-17	61 C 9826	14.95	61 C 9972	15.65
Buick E-45, 5 pass. 1918			....	......
Buick H-45, 5 pass. 1919— with Gypsy Curtain	61 C 9827	16.75	....	......
Buick K-45, 5 pass. 1920— with Gypsy Curtain				
Chevrolet 490, 5 pass. 1915-16-17	61 C 9828	13.45	61 C 9974	14.65
Chevrolet 490, 5 pass. 1918-19-20	61 C 9830	13.95	61 C 9975	14.65
Dodge, 5 pass. 1915-16-17-18-19	61 C 9831	15.95	61 C 9976	15.25
Dodge, 5 pass. with Gypsy Curtain 1920	....	......	....	......
Maxwell 25, 5 pass. 1915	....	......	61 C 9977	15.65
Maxwell 25, 5 pass. 1916-17			61 C 9978	15.65
Maxwell 25, 5 pass. 1918			61 C 9979	15.65
Maxwell 25, 5 pass. 1919-20	61 C 9832	14.45	....	......
Oakland 32, 1915, 32B, 1916, 5 pass.	....	......	61 C 9892	15.65
Oakland 34B, 5 pass. 1918-19, 34C, 1920	61 C 9833	14.45	....	......
Overland 75, 5 pass. 1916-17	....	......	61 C 9980	15.65
Overland 90, 5 pass. 1917-18-19	61 C 9835	14.45	61 C 9981	15.65
Reo, 4 cyl. 5 pass. 1916-17	....	......	61 C 9895	16.45
Studebaker, 4 and 6 cyl. 5 pass. 1916-17	....	......	61 C 9896	16.45

Stik-Tite Curtain Windows

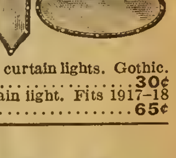
Made of celluloid with strong binding edge. Cement included for sticking them on like patch. Average ship. weight, each, 8 oz.

61 C 9942—Oval Window. Cotton mohair edge to fit Overland, Buick, prior to 1918, Maxwell, except 1919, Chevrolet, Briscoe, and other cars with an oval opening of this size. Will fit any oval opening 8½ inches deep or less and 18½ inches long or less. Each.............. **95¢**



61 C 9943—Oval Window. Cotton mohair edge to fit all 1916-17 Studebaker touring cars. Will also fit any oval opening 9 inches deep or less and 22¾ inches long or less. Each.............................. **$1.45**
61 C 9944—Stik-Tite Jiffy Design. Will fit either rear or side curtains of 1916-17-18 Dodge cars. Fits any curtain opening of Gothic shape 10¾ inches long or less or 3½ inches wide or less. Made with standard Mohair edge. Each.. **40¢**
61 C 9878—For Dodge Cars. To fit either rear or side curtains of Dodge 1919-1921. Long grain motor fabric edge. Each.................................... **40¢**
61 C 9962—Square Window. Fits 1918 Buick E-45 to E-50; also Allen 1917 and 1918. Long grain motor material edge. Fits opening 10 inches square or less... **79¢**
61 C 9924—Oval Window. To fit Oakland touring, models 34, 34-B, 34-C. Edge of long grain motor fabric. Fits oval opening 14½ inches long or less or 8½ inches wide or less. Each............................ **79¢**

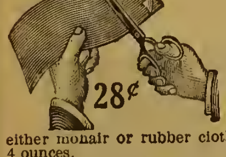
Window Lights for Dodge and Chevrolet



Excellent grade celluloid. Attached with small cleats which are included. Shipping weight, each, 8 ounces.

61 C 9948—Dodge rear and side curtain lights. Gothic. Size, 12 by 4¼ inches. Each light.................. **30¢**
61 C 9374—Chevrolet rear curtain light. Fits 1917-18 and 19 models. Each light.......................... **65¢**

Strips for Repairing Auto Tops

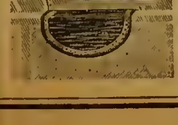


28¢

Large holes or broken places in tops of curtains can be neatly repaired with these strips. Cut size strip needed, moisten with gasoline and attach like cementless patch on tubes. Furnished for either mohair or rubber cloth tops. Shipping weight, 4 ounces.

61 C 1784—Made of long grain motor fabric for repairing pantasote and imitation leather tops. Size, 3 by 12 inches.................................. **28¢**
61 C 1781—For rubber cloth tops. Suitable for Ford tops. Size, 5 by 9 inches.................. **29¢**
61 C 1782—For cotton mohair tops. Size, 3 by 12 inches....................................... **29¢**

Door Guard



Protects the finish of your car doors and adds to the appearance. Made of imitation leather over sheet metal. Under ordinary conditions, lasts as long as the car. Ship. wt., 5 oz.

61 C 2715—Each... **18¢**

Auto Top Mender

Repairs mohair or rubberized tops, seats and side curtains. Easily applied. Will mend even large tears. About 36 square inches repair patch, bottle of cement and dauber. Shipping weight of outfit, 1 pound.

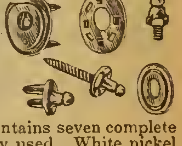
61 C 1743—For rubberized tops... **34¢**
61 C 1744—For mohair tops...... **34¢**

Celluloid Mending Outfit

For mending and patching cracked and broken celluloid auto curtains or any articles made of celluloid. This outfit consists of 1-ounce bottle celluloid mending liquid; assortment of strips for patching; one brush and full instructions. Shipping weight of outfit, 8 ounces.

61 C 9667—Outfit.................. **28¢**

Lift-the-Dot Auto Curtain Fasteners



Easy to attach and the simplest acting fastener made. If your present fasteners are broken or torn out, replace them with Lift-the-Dots. We have made up a special assortment that will prove mighty handy for every open car owner. The package contains seven complete fasteners of styles most generally used. White nickel finish. Shipping weight, per package, 6 ounces.

61 C 6691—Seven complete fasteners........ **35¢**

Ford Owners — See Page 579 for Re-Cover Outfits, Replacement Curtains, Seat Covers, Tire Covers, etc.

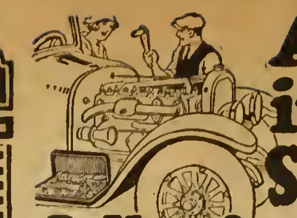
Strong Steel Box

$5.95

Handy Socket Wrench Set

Due to the high cost of making repairs and adjustments, many car owners are doing this work themselves. Loose nuts and bolts cause excessive wear, which means new parts. Here is an outfit that will cut down high costs for you. The sockets in this outfit will fit practically every bolt and nut on all autos; and with the use of our new improved flat ratchet handle you can tighten loose parts and make adjustments in a great deal less time than with ordinary wrenches. Outfit consists of socket wrench; an assortment of 30 casehardened, cold drawn, pressed steel sockets ranging in size from 5/16 to 1 9/32 inch; a universal joint (permitting the use of the wrench at any angle up to 90 degrees); one long extension bar, permitting wrench to reach into engine or crankcase; also a long socket for removing spark plugs. Shipping weight, per set, 10 pounds.

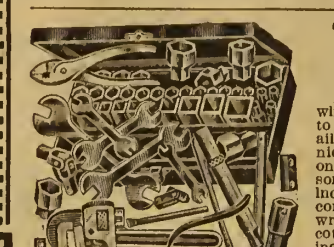
61 C 9537—Complete set in strong steel box.. **$5.95**



A Turn in Time Saves Nine
-Do Your Own Repairing

All Pressed Steel Sockets Shown on This Page Are Guaranteed Not to Break

Don't wait until new parts are necessary before tightening up nuts and bolts. Go over the car occasionally. Keep the nuts tightened up. Your car will last longer and your repair bills will be less—you will get greater pleasure from driving. A good socket wrench set makes the work easy.



Tractor Socket Wrench Set

A special set that probably will do more than anything else to keep your tractor on the job all the time. Set consists of one nickel plated ratchet handle; one 12-inch steel handle Stillson pipe wrench; one pair 8-inch drop forged nickel plated combination pliers; five flat wrenches (ten openings); one cotter pin extractor; one folding screwdriver; one universal joint; one long and one short extension rod; one offset socket wrench handle; one hexagon spark plug socket which fits standard ¾-inch tractor plugs, and 38 guaranteed pressed steel sockets varying in size from 5/16 to 1 9/32 inches. All in strong steel box. Shipping weight, per set, 18 pounds.

61 C 9997—Complete set........................**$12.95**

Master Socket Wrench Set

The set for the boss mechanic or critical auto owner who insists on having the best; who demands that every nut or bolt be properly tightened. Hard-to-reach connecting rod nuts, brakeband and clutch adjustment are easily handled. The Master Set contains one flat ratchet handle; one 7-inch drop forged pipe wrench; one pair pliers; five flat wrenches (ten openings); one cotter pin extractor; one folding screwdriver; one universal joint; one long extension rod; one offset socket wrench; handle; one spark plug socket 3 1/32 by 4 inches long; 38 guaranteed pressed steel sockets. Strong steel box of convenient size to carry in car. Shipping weight, per set, 15 pounds.

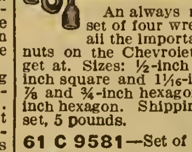
61 C 9733—Complete set................**$9.95**

Challenge Wrench Set

Sockets of fine grade pressed steel. Sockets are held in handle by spring tension. Set consists of 14 sockets, fitting almost all sizes of bolts, nuts and setscrews. Universal joint and extension enable one to reach into cramped, difficult places at any angle without trouble. The set is in a strong wood box and can be carried in the car. Shipping weight, of set, 8½ pounds.

61 C 9730—Complete set..........**$3.60**

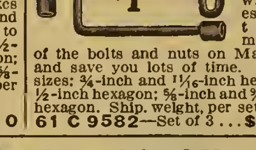
Special Socket Wrench Sets



For Chevrolet 490

An always ready, sturdy set of four wrenches makes all the important bolts and nuts on the Chevrolet 490 easy to get at. Sizes: ½-inch hexagon; ½-inch square and 1 1/16-inch hexagon; ⅞ and ¾-inch hexagon; 9/16 and ⅝-inch hexagon. Shipping weight, per set, 5 pounds.

61 C 9581—Set of 4....**$2.10**



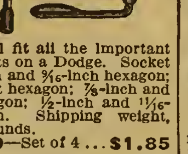
$1.45

For Maxwell

These three wrenches will take most of the bolts and nuts on Maxwells and save you lots of time. Socket sizes: ¾-inch and 11/16-inch hexagon; ½-inch hexagon; ⅝-inch and 9/16-inch hexagon. Ship. weight, per set, 4 lbs.

61 C 9582—Set of 3...**$1.45**

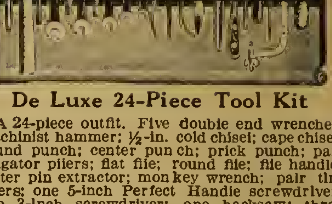
$1.85



For Dodge

Contains four socket wrenches which will fit all the important bolts and nuts on a Dodge. Socket sizes: 7/16-inch and 9/16-inch hexagon; ½-inch offset hexagon; ⅞-inch and ¾-inch hexagon; ½-inch and 11/16-inch hexagon. Shipping weight, per set, 5 pounds.

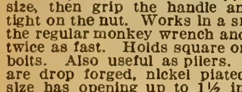
61 C 9580—Set of 4...**$1.85**



De Luxe 24-Piece Tool Kit

A 24-piece outfit. Five double end wrenches; machinist hammer; ½-in. cold chisel; cape chisel; round punch; center punch; prick punch; pair alligator pliers; flat file; round file; file handle; cotter pin extractor; monkey wrench; pair tire pliers; one 5-inch Perfect Handle screwdriver; one 3-inch screwdriver; one hacksaw; three hacksaw blades. All in a canvas roll. Shipping weight, per set, 9 pounds.

61 C 9881—Complete set..........**$5.15**



$1.30

Plier Grip Wrench
Can't Let Go Until You Let It

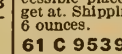
Simply adjust to within ¼ inch of the nut size, then grip the handle and the jaws close tight on the nut. Works in a smaller space than the regular monkey wrench and can be operated twice as fast. Holds square or hexagon nuts or bolts. Also useful as pliers. Jaws and handle are drop forged, nickel plated finish; 10-inch size has opening up to 1½ inches; 8-inch size has opening up to 1 inch. Shipping weight, 1¼ and 2 pounds.

61 C 9541— 8-inch size..........**$1.30**
61 C 9542—10-inch size.......... **1.68**

Drop Forged Adjustable Wrench

A strong, high quality wrench. Carefully cut threads and knurled turn screw. Length, 8¾ inches. Opening, 1¾ inches. Shipping weight, 1 pound.

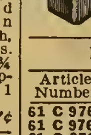
61 C 9758.27¢



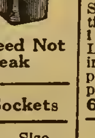
Universal Joint

Allows you to work socket wrench at an angle, making inaccessible places easy to get at. Shipping weight, 6 ounces.

61 C 9539....39¢



Pressed Steel Hexagon and Square Sockets



These sockets fit all standard size socket wrench handles. Shipping weights, 3 to 6 ounces. State size. Each, any size. **13¢**

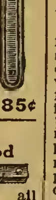
Hexagon Sockets

Article Number	Size In.	Article Number	Size In.
61 C 9764	5/16	61 C 9778	¾
61 C 9765	11/32	61 C 9779	25/32
61 C 9766	⅜	61 C 9780	13/16
61 C 9767	13/32	61 C 9781	27/32
61 C 9768	7/16	61 C 9782	⅞
61 C 9769	15/32	61 C 9783	29/32
61 C 9770	½	61 C 9784	15/16
61 C 9771	17/32	61 C 9785	31/32
61 C 9772	9/16	61 C 9786	1
61 C 9773	19/32	61 C 9787	1 1/32
61 C 9774	⅝	61 C 9788	1 3/32
61 C 9775	21/32	61 C 9789	1 5/32
61 C 9776	11/16	61 C 9790	1 9/32
61 C 9777	23/32	....	....

Guaranteed Not to Break

Square Sockets

Article Number	Size
61 C 9791	13/32 in.
61 C 9792	15/32 in.
61 C 9793	17/32 in.
61 C 9794	19/32 in.
61 C 9795	21/32 in.
61 C 9796	23/32 in.
61 C 9797	29/32 in.
61 C 9798	1 1/32 in.
61 C 9799	1 5/32 in.
61 C 9800	1 9/32 in.

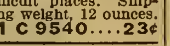


Ratchet Handle

Fits all size sockets, either hexagon or square, listed on this page. Steel construction, finished in black. Length, eight inches. Shipping weight, 1 pound.

61 C 9749....85¢

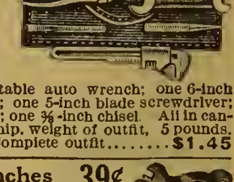
Socket Extension Rod



For use with all standard pressed steel sockets. A necessity when reaching into difficult places. Shipping weight, 12 ounces.

61 C 9540....23¢

Handy Tool Kit



A drop forged set consisting of three double end wrenches with following openings: 7/16 and ½; 9/16 and 19/32; ¾ and ⅞ inch; one 8-ounce machinists' ball pein hammer; one 9-inch adjustable auto wrench; one 6-inch combination plier; one 5-inch blade screwdriver; one ⅜-inch punch; one ⅜-inch chisel. All in canvas tool case. Ship. weight of outfit, 5 pounds.

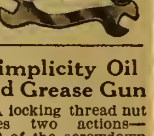
61 C 9738—Complete outfit........**$1.45**

Utility "S" Wrench Set

This set consists of five best grade drop forged wrenches; lengths varying from 6¼ to 10⅜ inches. Ten different openings as follows: 7/16, ½, 9/16, 19/32, ⅝, 11/16, ¾, ⅞, 15/16 and 1 inch. The ends are semi-finished and each opening is accurately ground to size. With this set you can adjust practically every nut and bolt. Shipping weight, per set, 3 pounds.

61 C 9750—Set of 5................................**$1.18**

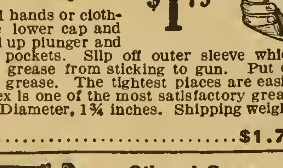
Flat Wrenches 39¢



Outfit contains 5 flat "S" wrenches. Made of good quality heavy hardened steel. The openings are accurately made to fit tightly. Have the following size openings: 7/16, ½, 9/16, 19/32, ⅝, 11/16, ¾, ⅞, 15/16 and 1 inch. Shipping weight, per set, 2 pounds.

61 C 9757—Set of 5..................**39¢**

Simplex Quick Action Grease and Oil Gun



$1.79

Works quickly and does away with soiled hands or clothing. Simply remove lower cap and insert in grease. Pull up plunger and the gun fills—no air pockets. Slip off outer sleeve which prevents superfluous grease from sticking to gun. Put on lower cap and pump grease. The tightest places are easily reached. The Simplex is one of the most satisfactory grease guns on the market. Diameter, 1¾ inches. Shipping weight, 2¼ pounds.

61 C 9803..................................**$1.79**

Rex High Pressure Greasing System

To get the best service from your car, it must be greased. Grease lessens wear so parts last three or four times longer; makes the car ride more smoothly; eliminates squeaks and saves many dollars in repair bills. But ordinary grease cups are dirty, hard to work and take long to adjust.

The Rex Greasing System consists of a grease gun that will exert 2,000 pounds pressure (with one hand) without leaking, and a complete set of fittings to take the place of the old grease and oil cups. Gun holds enough grease to take care of several bearings—and does the job quickly. It forces the old grease and grit out so you have new, fresh grease that makes the bearings work freely and quietly. Non-leaking swivel joint with threaded coupling to connect to the Rex fittings enables you to reach all bearings easily. Outfits are complete with gun and all fittings for cars shown. **When ordering give the catalogue number and state make and model of your car.**

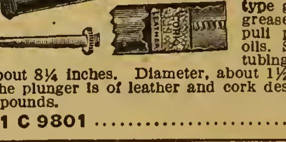
Average shipping weights, from 4 to 6½ pounds.

261 C 4200—For all Chevrolet 490, 1920–21; all Maxwell 1920-21; all Nash 1920–21. Complete outfit...............................**$6.45**

261 C 4201—For all Dort 1920–21; all Elgin 1920–21; all Studebaker 1920–21. Complete outfit..................................**$7.95**

261 C 4202—For all Buick 1920–21; all Dodge 1920–21; all Essex 1920–21; all Maxwell 1917–18–19; all Oakland 1920–21; all Overland 1920–21. Complete outfit..................................**$9.45**

Shipped from Factory in Chicago

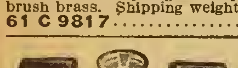


$1.25

Simplicity Oil and Grease Gun

A locking thread nut gives two actions—that of the screwdown type gun for heavy oils and greases, and the push and pull plunger type for light oils. Substantial heavy gauge tubing. Length of barrel, about 8¼ inches. Diameter, about 1½ inches. Two nozzles. The plunger is of leather and cork design. Shipping weight, 2 pounds.

61 C 9801..................................**$1.25**



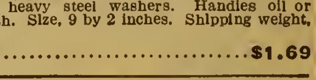
Oil and Grease Gun

35¢

Will load and discharge grease as well as the lightest oil. End of gun is threaded to fit the Ford differential. Heavy metal tubing, 1¼ by 9 inches. Double leather plunger. Capacity, 6 ounces. Finished in brush brass. Shipping weight, 1 pound.

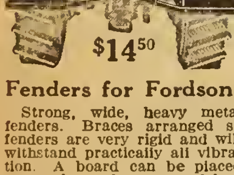
61 C 9817..................................**35¢**

Jumbo Heavy Duty Grease and Oil Gun



Made in a very high grade manner with parts extra heavy. Holds 15 ounces of heavy grease. The plunger is made of leather, reinforced with two heavy steel washers. Handles oil or grease. Polished finish. Size, 9 by 2 inches. Shipping weight, 2⅛ pounds.

61 C 9802.....................................**$1.69**



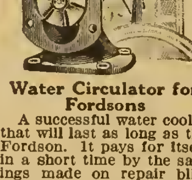
$14.50

Fenders for Fordsons

Strong, wide, heavy metal fenders. Braces arranged so fenders are very rigid and will withstand practically all vibration. A board can be placed across lower braces so driver can stand on it when tired of sitting down. Complete with attachments. Shipping weight, per pair, 135 pounds.

161 C 9991—
Per pair............**$14.50**

$16.55



Water Circulator for Fordsons

A successful water cooler that will last as long as the Fordson. It pays for itself in a short time by the savings made on repair bills due to overheating. Keeps water cool under conditions where radiators alone fail. Can be fitted in a few minutes. Shipping weight, 15 pounds.

61 C 4077...$16.55

Supplies for Fordson Tractors

Piston Rings

Nu-Power 3-Piece Piston Ring for Fordsons

Three-piece construction allows this ring to fit perfectly. Size for Fordsons, 4 by ¼ inch. Shipping weight, each, 5 ounces.

61 C 9478—Each..**75¢**

Regular piston ring made of tough, springy metal. Stepcut design now adopted as standard by many manufacturers. Size, 4 by ¼ inch. Shipping weight, each, 3 ounces.

61 C 9137—Each...**14¢**

Oil Groove Piston Ring

Oil sealing piston ring for Fordsons. Groove prevents oil working past pistons. Quick seating type. Shipping weight, each, 4 ounces.

61 C 8993—
Each............**27¢**

Bethlehem

Champion

Spark Plugs for Fordsons

This Bethlehem spark plug is standard equipment on the Fordson tractors. Shipping weight, each, 8 ounces.

61 C 9879
Each.....**49¢**

Has long shank that carries the spark into combustion chamber. Shipping weight, each, 6 ounces.

61 C 9998
Each...**65¢**

$4.50

Herz Hammerblow Timer

For Fordsons. A reliable, positive timing system. The Herz has no roller, no brush, no fiber and no raceway to cause trouble. It is built to give years of accurate, faithful service. Shipping weight, 2 pounds.

61 C 9937.........**$4.50**

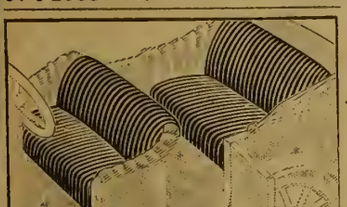
Write for our Wardway Homes Catalogue, showing popular Ready-Cut Garages

Supplies for Fords Start Here

Neat Striped Seat Covers for Fords $5.20

A great many Ford owners prefer this dark striped pattern instead of the light colored materials. These Covers are made of a durable fabric seat cover material that will give long service and always present an attractive appearance. The seams are strongly sewed and the armrests are reinforced with heavy patent finish duck. You can remove the covers to clean them so they can always be kept neat, giving complete protection to the daintiest dress or suits. Covers are included for all the doors. The touring car set has pockets in three door covers. The roadster has a pocket in the right door cover. Both the sedan and coupe door covers have pockets. These door pockets are especially handy for carrying extra plugs, wrenches and pliers. Shipping weights: Roadster and coupe, 4 pounds; sedan and touring, 8 pounds.

61 C 2587—Touring, 1917 to 1921. **$ 9.75**
61 C 2581—Touring, 1922. **9.75**
61 C 2589—Sedan, 1920-21-22. **10.85**
61 C 2586—Roadster, 1917 to 1922. **5.20**
61 C 2588—Coupe, 1918 to 1922. **6.85**

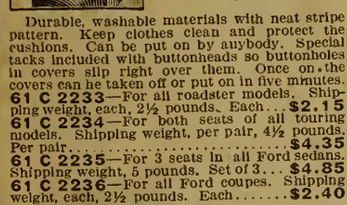


Slipover Seat Covers for Fords

Protect the Cushions and Keep the Clothes Clean

Durable, washable materials with neat stripe pattern. Keep clothes clean and protect the cushions. Can be put on by anybody. Special tacks included with buttonheads so buttonholes in covers slip right over them. Once on the covers can be taken off or put on in five minutes.

61 C 2233—For all roadster models. Shipping weight, each, 2½ pounds. Each... **$2.15**
61 C 2234—For both seats of all touring models. Shipping weight, per pair, 4½ pounds. Per pair... **$4.35**
61 C 2235—For 3 seats in all Ford sedans. Shipping weight, 5 pounds. Set of 3... **$4.85**
61 C 2236—For all Ford coupes. Shipping weight, each, 2½ pounds. Each... **$2.40**



Ward's Economy Top Re-Covering Outfits for Fords

Make Old Tops Look Like New

If your top is shabby or torn make it look new with one of these Top Re-Covering Outfits. They are cut to fit perfectly. Only home tools needed. The top and back curtains are made of heavy rubberized fabric with all parts stitched ready to slip right over the old top frame. Fasteners and trimming also furnished. Outfits with two beveled plate glass lights are a big improvement over the old type and make the top really better than new. All glass lights are the heavy beveled plate type. Shipping weights of touring models, 12 pounds. Roadster models, 8 pounds. Re-Covers with gypsy curtains weigh 14 pounds and 10 pounds, respectively.

Re-Cover Outfits with Regular Rear Curtains

61 C 2741—With two glass lights, for touring 1915-21... **$6.25**
61 C 2740—With two glass lights, for roadster 1915-22... **4.95**
61 C 2747—With three celluloid lights, for touring 1915-21... **4.95**
61 C 2746—With three celluloid lights, for touring 1913-14... **4.95**
61 C 2743—With three celluloid lights, for roadster 1915-22... **3.85**
61 C 2742—With two celluloid lights, for roadster 1914... **3.85**

Re-Cover Outfits with Gypsy Side Rear Curtains

61 C 2736—With two glass lights, for touring 1915-21... **$7.65**
61 C 2749—With two glass lights, for roadster 1915-22... **6.45**

You Can Do It Yourself

First take out tacks at the front and rear of the old top and pull it off. Do not remove the bow padding. Then take Ward's Economy Re-Cover and slip it right over the bows and frame. It is cut to fit so any car owner can do an entirely satisfactory job in a short time. Now is a good time to get your car ready for winter, so be sure to include one of these Economy Top Re-Covers on your next order. This outfit will make your Ford more attractive and more comfortable.

$3.85 You Can Put It On

Radiator and Hood Covers $1.45

Attached by means of metal clips and may be easily detached. Made of imitation leather or enamel cloth, heavily lined. Filler hole and handles are reinforced with fabric. Front curtain divides at center and fastens with straps and snaps. Average shipping weight, 3¼ pounds.

Enameled Cloth

61 C 2601—For 1916 and older models... **$1.45**
61 C 2602—For 1917 to 1922 models **2.35**

Imitation Leather

61 C 2621—For 1917 to 1922 models **3.25**

Radiator Cover

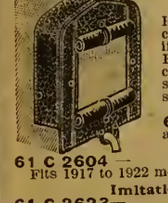
Radiator Cover only. High grade black enameled cloth or imitation leather lined with thick material. Front curtain divides at center and fastens with straps and snaps. Average shipping weight, 1½ lbs.

Enameled Cloth

61 C 2603—For 1916 and older models. Each... **$ .75**
61 C 2604—Fits 1917 to 1922 models. Each... **1.20**

Imitation Leather

61 C 2623—Fits 1917 to 1922 models. Each... **$1.45**



Tire Covers

Good quality black enameled waterproof drill. A highly tempered flat steel spring is inserted along the buttoned edge, which holds cover in shape. Special glove snap buttons are used to keep cover closed. Covers illustrated are for tires not on demountable rims. Shipping weight, each, 1½ pounds.

All Black Covers

61 C 1909—Size, 30 by 3. Each... **$1.45**
61 C 1910—Size, 30 by 3½. Each... **1.50**
61 C 1928—Size, 30 by 3½. For tires on demountable rims. Does not cover rim... **$1.75**

Black Covers with White Stripe Around the Center

61 C 1929—Size, 30 by 3. Each... **$1.60**
61 C 1930—Size, 30 by 3½. Each... **1.65**
61 C 1931—Size, 30 by 3½. For tires on demountable rims. Does not cover rim... **$1.95**

Door Guards

Door Guards protect the finish of your car doors and add to their appearance. Imitation leather over sheet metal. Shipping weight, each, 8 ounces.

61 C 2715—Each... **18¢**

Beautiful One Man Tops For Fords $22.65

A big improvement over the old style tops. It does away with unsightly bows that are always in the way. There probably is no one necessity that you could put on your car which would dress it up as much as this outfit. Easily and quickly raised by one person without leaving the car. Top is lined with high grade waterproof cloth. Strongly reinforced with bows. Will hold its shape permanently under all weather conditions. Equipment similar to that of expensive cars. No rattling. Quickly attached curtains are included with top and carried in pockets fastened to the upper bows. Furnished for touring cars only. Shipping weight, 105 pounds. Can not be sent by mail.

Heavy Rubber Cloth Top with side curtains and three celluloid rear windows. This top does not have the gypsy side curtains as shown in the illustration. Material is similar to that used in regular Ford tops. Fits all 1915 to 1922 Ford touring cars. Shipping weight, 105 pounds.

161 C 2770—Complete outfit... **$22.65**

Heavy Rubber Cloth Top with side curtains and two beveled plate glass lights. This top is not furnished with gypsy side curtains. Will fit all 1915 to 1922 Ford touring cars. Shipping weight, 105 pounds.

161 C 2721—Complete outfit... **$23.65**

Finest Quality Imitation Leather Top

Imitation leather material with gypsy curtains as illustrated, the style used on expensive cars. Top furnished complete with side curtains. The rear curtain has two 5 by 7 beveled plate glass windows. Fits all 1915 to 1922 Ford touring models. Shipping weight, of outfit, 105 pounds.

161 C 2726—Complete outfit... **$28.65**

Top Dust Hoods

Every Ford owner should have a Top Dust Hood. When your top is down, just slip on the dust hood. This will protect the top against dust and give your Ford a neater appearance. Shipping weight, about 2½ pounds.

61 C 2237—To fit 161 C 2726... **$3.45**
61 C 2271—To fit 161 C 2770 and 161 C 2721... **2.95**

Pocket Door Covers

Well made of rubberized cloth material strongly bound and stitched. We furnish the necessary binding nails for fastening. Order by article number. State model desired. Shipping weight, each, 6 ounces. Each... **53¢**

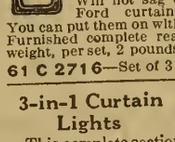
Model	Year	Right Rear Door	Left Rear Door	Right Front Door	Left Front Door
Touring	1917 1922	61C2758	61C2759	61C2760	61C2761
Roadster	1917 1922			61C2768	61C2769

Each... **53¢**

Seat Cushions for Fords $5.35

Excellently constructed. Will stand hard service yet hold their shape. Covered with imitation leather. Fits all Ford open cars, 1913 to 1922. Shipping weight, front or rear, 18 pounds.

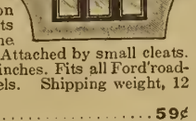
161 C 2738—Rear seat cushion... **$5.60**
161 C 2737—Front seat cushion. Fits touring or roadster... **5.35**



Set of 3 Glass Lights For Rear Curtains

Easily attached. Will outlast several sets of celluloid windows. Each glass is set in metal sashes which are attached to the curtain with small bolts. Will not sag or tear curtain. Fits all Ford curtains having three lights. You can put them on with an ordinary screwdriver. Furnished complete ready to attach. Shipping weight, per set, 2 pounds.

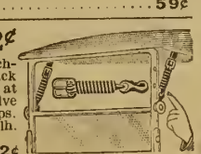
61 C 2716—Set of 3... **98¢**



3-in-1 Curtain Lights

This complete section with celluloid lights sewed in will repair the worst kind of tears. Attached by small cleats. Size, about 24 by 12 inches. Fits all Ford roadster or touring models. Shipping weight, 12 ounces.

61 C 2782... **59¢**



Spring Top Straps 52¢

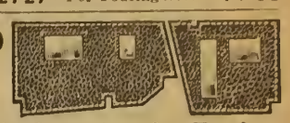
This spring attachment takes up the slack and keeps the top taut at all times, but will give when jerked by bumps. Ship wt., per pair, ½ lb.

61 C 2298—Per pair... **52¢**

Door Opening Side Curtains

Curtains open and close with doors. Does away with fastening every time some one gets in and out of car. Curtains always rigid and stay in place. No rattles. Outfit includes all side and door curtains, door rods and fasteners. Curtains and rods easily removed when not needed. Made of regular curtain material (rubberized fabric). Large clear celluloid windows. Fit all Ford models 1915 to 1922. Shipping weights, complete outfit, 10 and 16 pounds.

61 C 2728—For Roadster... **$ 8.45**
61 C 2727—For Touring... **14.95**



$1.90

Side Curtains for Fords

These Curtains are made of rubberized fabric and fit perfectly. The workmanship on them is of the very best. The celluloid windows are double sewed with a strong thread. Furnished complete with eyelets for attaching to your car. Fit all Fords 1915 to 1922. Shipping weight, each, 2½ pounds; per set, 7½ pounds.

61 C 2710—Right Front, for touring... **$1.90**
61 C 2711—Left Front, for touring. **1.90**
61 C 2712—Right Rear, for touring. **2.10**
61 C 2713—Left Rear, for touring. **2.10**
61 C 2717—Complete set of side curtains for Ford touring cars, 1915 to 1922. Per set... **$6.95**
61 C 2718—Complete set of side curtains for Ford roadsters, 1915 to 1922. Per set **$4.65**

$3.15

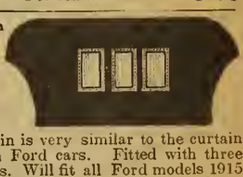
Back Curtain with Two Beveled Plate Glass Windows

Complete rubber cloth Curtain to fit all models of Ford cars from 1915 to 1921. Made of high grade rubberized fabric to match Ford tops; furnished ready to be attached to car. Fitted with two oval plate glass windows which will greatly improve the appearance of your Ford. Shipping weight, 5 pounds.

61 C 2773—For touring. **$3.15**
61 C 2795—For roadster **3.15**

Back Curtain with Three Celluloid Windows

$1.95



This Curtain is very similar to the curtain supplied with Ford cars. Fitted with three celluloid lights. Will fit all Ford models 1915 to 1921. Match the regular Ford top. Complete with all necessary fittings. Shipping weight, 3 pounds.

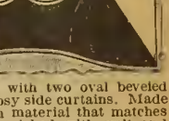
61 C 2774—Rubber cloth, for touring... **$1.95**
61 C 2796—Rubber cloth, for roadster... **1.95**

Complete Rear Curtains with Beveled Plate Glass Lights and Gypsy Sides For Fords

Latest style Curtains with two oval beveled plate glass lights and gypsy side curtains. Made of 32-ounce rubber cloth material that matches original Ford top. Furnished with welt and fasteners. Fits all 1915 to 1921 models, touring cars only. Ship. weight, complete, 7½ pounds.

61 C 2731—Complete... **$4.75**

Curtain Lights For Fords 19¢



Neat, attachable celluloid Rear Windows. Firmly bound with black waterproof enameled cloth. Windows are watertight. Fit 1915 to 1922 Fords. Measurements given are over all. Shipping weight, each, 3 to 6 ounces.

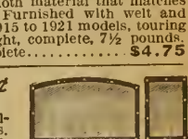
Lights for Side Curtains Only

61 C 2778—Size, 7 by 20 inches... **37¢**
61 C 2779—Size, 10 by 14 inches... **39¢**
61 C 2780—Size, 7 by 10 inches... **20¢**

Rear Curtain Lights

61 C 2704—Rear curtain window, 11 by 18 in. Fits 1914-15-16 cars... **48¢**
61 C 2705—Fits 1917 to 1922 models having three small lights in rear curtain, 6 by 10 inches. Each light... **19¢**

Stick-Tite Windows for Fords



Stick them on like an inner tube patch and they stay indefinitely. The Stick-Tite Windows enable anyone to replace his own back curtain window in a few minutes. There are no stitches or fasteners used in any part of these windows. Attractive in appearance. They have celluloid lights bound with auto rubber cloth to fit Ford cars. Large size for 1916 and all earlier models having oval top single opening. Complete, ready to attach, with full instructions. Shipping weight, each, 3 to 6 ounces.

61 C 2703—Large size, 19 by 11 inches. Each light... **75¢**
61 C 2719—Small size, fits 1917 to 1922 models having three small lights in rear. Size, 10¾ by 6¾ inches. Each light... **39¢**

Warning Signals that always get attention are shown on Page 575

Carburetors and Ignition Supplies for Fords

Hot Spark Intensifiers

28¢ Each

Makes Old Plugs Fire Like New

They often save their cost several times over in helping to locate ignition troubles. Just raise the hood and watch the sparks in the glass cylinders. Hundreds of tests have proven that this wonderful little device with its adjustable gap actually makes spark plugs which are missing and would not fire at the points on account of soot, carbon or similar troubles, fire every time just like they did when new. They strengthen the spark so it burns right through carbon. Hot Spark Intensifiers will save you spark plug money. Plug not included. Shipping weight, each, 2 ounces.

61 C 7116—Each..... $ .28
61 C 7117—Set of 4..... 1.10

Extra Porcelains to Fit Champion X and Horseshoe Spark Plug Shells

Save spark plug money by replacing cracked porcelains with these highly efficient Porcelains. They fit Champion X and Horseshoe shells perfectly. Complete with gaskets and electrode. Carefully packed. It pays to carry extra porcelains as they often save you buying a whole new plug. Shipping weights, 4, 6 and 12 ounces.

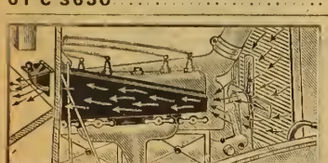
61 C 2130—Set of 4..... $ .42
61 C 2131—Set of 6..... .63
61 C 2132—Set of 12..... 1.23

Heaters for Ford Cars

Exhaust Heater

Designed to attach easily to Ford exhaust. No upkeep cost. Nothing to get out of order. No odor—no noise—no back pressure. Keeps you warm in the coldest weather. Regulator fits in floor board and may be closed on warm days. An excellent Heater for all Ford owners. Shipping weight, 4½ pounds.

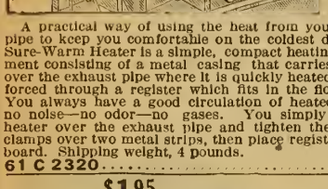
61 C 3650..... $2.35



Sure-Warm Heater for Fords

A practical way of using the heat from your exhaust pipe to keep you comfortable on the coldest days. The Sure-Warm Heater is a simple, compact heating arrangement consisting of a metal casing that carries fresh air over the exhaust pipe where it is quickly heated and then forced through a register which fits in the floor board. You always have a good circulation of heated air with no noise—no odor—no gases. You simply place the heater over the exhaust pipe and tighten the manifold clamps over two metal strips, then place register in floor board. Shipping weight, 4 pounds.

61 C 2320..... 98¢



$1.95

Comfort Heater for Fords

An entirely new model of heater that will furnish sufficient heat to keep you very comfortable in the coldest weather. Made of metal and designed so it fits over the exhaust pipe and beneath the floor board of all models. It carries the heat to the pedal openings so it is not necessary to cut or alter the boards. Exhaust pipe fits in opening in the heater so you do not have to cut the pipe or drill holes. Screwdriver only tool needed. A regulator varies the temperature. No gases, odor or noise from the exhaust. Shipping weight, 4½ pounds.

61 C 3589..... $1.95

Hot Spot Generator

Manifold Heater

On cold mornings you may use this Hot Spot Generator and start the motor quicker at 10 below zero than you would in summer without the generator. May be used nearly a hundred times for one cent. Attached in a couple of minutes. Heats the intake manifold so the engine starts almost instantly and will keep running without sputtering and jumping. Will last for years. Shipping weight of outfit, 6 ounces.

61 C 2942—Complete outfit..... 65¢

Jiffy Intake Manifold Heater

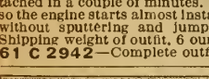
The Jiffy Intake Heater covers the Ford intake and exhaust manifolds, making a stove around them so the hot exhaust manifold heats the intake manifold. The Jiffy will pay for itself in gasoline saved within a few days, and you immediately will notice the improvement in the running of your motor. The Jiffy can be put on in less than five minutes. Shipping weight, 2 pounds.

61 C 2382..... 55¢

Steady Action Foot Accelerator for Fords

Leaves both hands free for steering. Does not interfere in any way with the action of your regular throttle lever. The easy, steady, dependable action of this accelerator is due to its special design and construction. Instructions included. Shipping weight, 1 pound.

61 C 2529..... $1.20



Spark Plug Wrench

Malleable iron, finished with baked black enamel. Fits all spark plugs listed on this page. Shipping weight, 12 ounces.

61 C 2116..... 17¢

Spark Plugs for Fords

Champion X Spark Plug

43¢ Each

This plug is the same as Champion X's that were in your Ford when it came from the factory. Champion X plugs have been used as standard equipment on Ford cars for years. The electrode is a special design and particularly adapted to the requirements of the Ford motor. It also will give equally good satisfaction in other motors using a ½-inch standard pipe thread plug. Shipping weight, each, 5 ounces.

61 C 2114—Complete plug; ½-inch size. Each... 43¢
61 C 2115—Porcelain only. Ship. wt., 3 oz. Each.. 27¢

Horseshoe Spark Plug

27¢ Each

This is a reliable and inexpensive Spark Plug of the style most commonly used in Ford motors: ½-inch size. Gives a hot fat spark. Ship. weight, each, 4 oz.

61 C 2134—Each..... 27¢

New AC 1075

43¢ Each

The very latest improved AC Spark Plug for Fords with the patented sawtooth **carbonproof** porcelain and special shape electrode which drains off oil. Another big improvement is the spring terminal clip that holds the regular Ford wire securely by simply slipping it under the spring. Great for testing out the plugs and instantly locating missing cylinders. Ship. weight, each, 5 ounces.

61 C 2117—Complete plug; ½-inch size. Each..... 43¢
61 C 2118—Porcelain only. Shipping weight, 3 ounces. Each. 26¢

Bethlehem Spark Plug

49¢ Each

Extension type. Designed especially for Ford motors. Extra heavy porcelain and special electrode. Two-piece cleanable type. Shipping weight, each, 5 ounces.

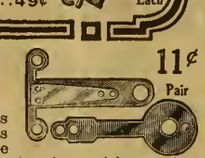
61 C 9879—Each..... 49¢

Coil Units for Fords

$1.30

A broken down or leaking coil causes hard starting, irregular ignition and lack of power. It is easy to correct such trouble by changing coil units. If your car is giving trouble from this source our Coil Units, made by one of the most prominent coil makers and guaranteed to give entirely satisfactory service, will save you considerable money. They are interchangeable with the coils used on all Fords from 1914 to 1922. Shipping weight, each, 2 pounds.

61 C 2138—Each..... $1.30



Parts for Coils Used on Fords

11¢ Pair

Pitted points on coil parts often cause the engine to miss as they stick together instead of vibrating properly. These Coil Parts are made of the best spring steel and are pointed with full size points of Tungsten. Packed one pair in an envelope. Part numbers 4733 and 4734. We sell thousands of pairs of these coil parts, so are able to quote you the lowest prices. Shipping weight, pair, 3 ounces.

61 C 2100—Per pair..... 11¢

Wiring Outfits For Fords

These Outfits consist of high grade wire, both primary and secondary, cut to correct lengths, complete with terminals, well insulated where exposed to grease or oil. Furnished in contrasting colors, for easy replacement in proper position. Shipping weights: Complete outfits, 8 ounces; spark plug wires only, 4 ounces.

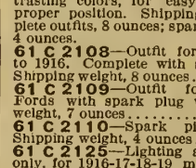
61 C 2108—Outfit for Fords previous to 1916. Complete with spark plug wires. Shipping weight, 8 ounces..... 50¢
61 C 2109—Outfit for 1916-17-18-19 Fords with spark plug wires. Shipping weight, 7 ounces..... 52¢
61 C 2110—Spark plug wires only. Shipping weight, 4 ounces..... 19¢
61 C 2125—Lighting and Timer wires only, for 1916-17-18-19 models. Shipping weight, 5 ounces..... 35¢
61 C 2136—For Fords equipped with electric starter—6-wire outfit, complete with spark plug wires. Shipping weight, 7 ounces..... 65¢
61 C 2135—Set of 6 timer and lighting wires only. Shipping wt., 5 ounces.... 45¢

85¢

Overhead Wiring Outfit

This Outfit will do away with trouble caused by wires becoming soaked by oil, grease and water as now happens. It also prevents wires from rubbing against the fan or fan belt. The wiring covers are in different colors so you can replace them yourself, and they are specially insulated at the timer, so short circuits at that point are impossible. Two fasteners on radiator rod and one on hose outlet connection hold wires, securely. Fits all models of Fords. Shipping weight, 10 ounces.

61 C 2359..... 85¢



Genuine Thomas Timer Elevator For Fords

$3.85

A big improvement for Fords, completely eliminating trouble so often caused by wires becoming soaked with oil or having the insulation rubbed off by the fan belt. It places the Timer in a clean, accessible position away from oil, mud and water so you will never have trouble from these sources. Thousands of these elevators have given great satisfaction. All gears are specially hardened and the working parts are very carefully made. Fits all timers made for Fords. Shipping weight, complete, 4¼ pounds.

61 C 2386—Complete, without timer..... $3.85

Coil Protector For Fords

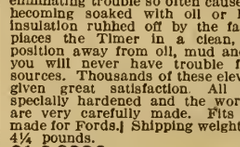
Prevents the water from seeping in between cowl and dash. Protects the coils from becoming short-circuited through water running down on the terminals or soaking back of the coil box. Made of thin sheet steel. Easy to install. Fits all 1917-18-19-20-21-22 models. Shipping weight, 6 ounces.

61 C 2582..... 48¢

Coil Protector Rain Shield

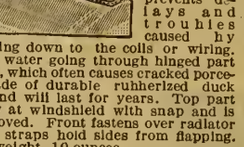
This Shield positively prevents delays and troubles caused by water leaking down to the coils or wiring. Also stops water going through hinged part of the hood, which often causes cracked porcelains. Made of durable rubberized duck material and will last for years. Top part fits snugly at windshield with snap and is easily removed. Front fastens over radiator cap. Two straps hold sides from flapping. Shipping weight, 10 ounces.

61 C 2585..... 95¢



Nu-Power 3-Piece Piston Rings

65¢ Each



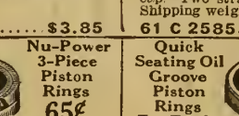
Quick Seating Oil Groove Piston Rings For Fords

25¢

Give Old Fords New Power

If your motor is weak and unable to take hills and mud on high, the trouble may be in faulty or worn piston rings. Nu-Power Piston Rings insure strong compression in the cylinders, stopping that waste of fuel and loss of power, and makes your engine produce its best. Consists of 3 pieces which fit the cylinders nugly all around. Shipping weight, each, 4 ounces.

61 C 2558—Regular size. Each..... 65¢
61 C 2583 — .0025 Oversize. Each... 65¢
61 C 2584 — .03125 Oversize. Each.... 65¢



12¢ Each

Quick Seating Step Cut Piston Rings

Regular Piston Rings made of tough, springy metal. Shipping weight, each, about 3 ounces.

61 C 2878—Regular size 12¢
61 C 2837 — .0025 Oversize. Each..... 12¢
61 C 2879 — .03125 Oversize. Each..... 12¢

Fords that use too much oil and gasoline or that have spark plug trouble on account of "throwing oil" can be corrected quickly and at a small cost by using these oil seal, quick seating Piston Rings. A groove cut near the top of each ring holds a quantity of oil, thus forming a film that gives better compression. Top ring has groove downward, lower rings have groove upward. Shipping weight, 3 ounces.

61 C 2937— Regular size. Each..... 25¢
61 C 2938 — .0025 Oversize Each:.. 25¢
61 C 2939 — .03125 Oversize. Each.... 25¢

Genuine Herz Hammerblow Timer

A great improvement in timer construction that gives Ford owners a reliable, positive timing system which will quickly repay the additional cost above common kind in time saved and extra service from the car. The Herz has no roller, no brush, no fiber and no raceway—parts which always have been trouble makers with ordinary timers. A simple, hardened steel cam replaces the old style roller or brush and always gives a sure acting press contact. The terminal housing has two little plunger buttons which are released with a snap a the cam passes. This causes a lightning quick break, which action absolutely cannot fail to produce a strong spark. This jerks a hot, fat spark out of the coils at all speeds. It is built to give years of accurate, faithful service. Shipping weight, 1½ pounds.

61 C 2592..... $4.50

65¢

Reliable Timer for Fords

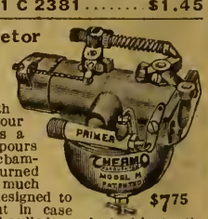
A high grade, accurately made Timer of the type most generally used on Fords. Hardened steel roller held in contact with the raceway by a coil spring. Fiber insulation. Fits all models. Shipping weight, 12 ounces.

61 C 2133 65¢

Positive Contact Timer for Fords

The contact is made on the sides of a double roller which gives a much greater surface so the roller will not wear like the ordinary kinds. A spring enclosed between the two rollers keeps them expanded against the contact points. Its action is as positive and accurate as the knife type electric switch. The case is made of aluminum alloy which will not rust. Fits all Ford models. Shipping weight, 12 ounces.

61 C 2381..... $1.45

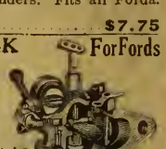


Thermo Carburetor

$7.75

An entirely new stylc Carburetor guaranteed to show a greatly increased mileage from each gallon of gasoline when compared with the results you get from your regular carburetor. It has a patented primer which pours gasoline into the atomizing chamber before the engine is turned over, which makes starting much easier and quicker. It is designed to run on a finer mixture, but in case more gas is needed for hard pulls it can be had instantly by operating the dash control furnished. Many of the complicated, troublesome parts, such as the needle valve and gasoline adjustment, have been eliminated from the Thermo. A double spray of air breaks up the gasoline more effectively so it is in thoroughly combustible condition when drawn into the cylinders. Fits all Fords. Shipping weight, 2¾ pounds.

61 C 2180..... $7.75



New Kingston Model L4K Economy Carburetor with Strainer For Fords

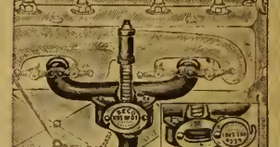
This is the new model which is being used as regular equipment by the Ford Motor Company on its cars. The L-4-K is a remarkable improvement over the old style Kingstons as it produces more power under all kinds of road and weather conditions. Many tests have shown mileage of 26 to 30.6 miles per gallon on touring cars, coupes and roadsters, and from 21 to 25.4 miles to the gallon from sedans. It has an improved spray nozzle entirely different from the one formerly used. The saving in gasoline will quickly repay you for the amount invested. Shipping weight, 3 pounds.

61 C 2153..... $4.85

Anco Hot-Spot Manifold

This Hot-Spot Manifold will save enough gasoline to pay for itself in a short time besides making your car or truck run more smoothly. It breaks up the gasoline so the pistons do not draw in raw gas to choke the engine, foul the spark plugs or carbonize the valves. You will notice a great improvement in your motor almost instantly when you put on this Hot-Spot. Made in one piece and will fit perfectly on all Ford cars. Put on with ordinary monkey wrench. Shipping weight, 12½ pounds.

61 C 2178..... $3.85



Hot-Spot Manifold with "Quick Start" Heater

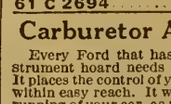
A brand new, thoroughly tested gasoline-saving Manifold that completely and evenly heats the gas for all cylinders, so the engine runs more smoothly and with greater economy. Actual tests on many Fords show savings of over 30% on gasoline. Besides saving gasoline this device serves as a "Quick Start" manifold heater for cold weather. By using the heater on cold mornings, you can start the motor as quickly at 10 degrees below zero as you can in summer. This saves the battery and starter. Aluminum construction. Replaces regular intake manifold. Shipping weight, 4½ pounds.

61 C 2694..... $6.75

Carburetor Adjuster

Every Ford that has a cowl or instrument board needs this extension. It places the control of your carburetor within easy reach. It will improve the running of your car, as the ease of control means that you will watch this vital part more closely. Dial on dash shows position of needle valve. You can install it yourself in a few minutes, as all necessary parts are furnished. Fits all models, closed and open. Shipping weight, 10 ounces.

61 C 2176..... 60¢

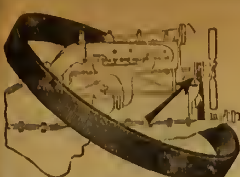


Piston Ring Compressors for Fords

Black enamel finish. Will fit all Ford and Fordson rings. Shipping weight, 14 ounces.

61 C 9112..... 25¢

Ward's guaranteed Auto Storage Batteries are shown on Page 574

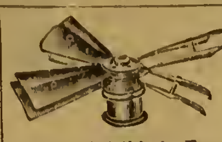


Very Best Quality Leather Fan Belt Guaranteed 10,000 Miles

This belt is cut from the choicest quality leather, extra width—full 1⅛ inches wide, or ⅛ of an inch wider than the usual belts for Fords. Special chemical treatment prevents their being affected by heat, oil, friction or moisture. Every one is carefully inspected and tested to insure that quality which makes possible a guarantee of 10,000 miles of perfect service. Shipping weight, 9 ounces.
61 C 2946—1916 and older models........65¢
61 C 2947—1917-18-19-20 models........65¢
61 C 2948—1921-22 models only........65¢

Leather Fan Belt

Made of good quality fan belt leather, endless. Cemented laps that will not come apart. Shipping weight, 6 ounces.
61 C 2661—1916 and older models...19¢
61 C 2662—Fits 1917-20 models.....19¢
61 C 2949—Fits 1921-22 models.....19¢



Pitter Multiblade Fan

Prevents your Ford from overheating. Draws air from outer ends of blades through every square inch of the radiator surface. Saves oil, repair bills and gasoline. Easy to install. Does not fit 1921 or 1922 models. Shipping weight, 3 pounds.
61 C 2674.......$2.35

Fabric Fan Belt

Constructed of strong, tightly woven fabric. Treated with a compound to make it last longer. Shipping weight, 3 ounces.
61 C 2657—1916 and older models...18¢
61 C 2658—1917-20 models..........18¢
61 C 2697—Fits 1921-22 models.....18¢

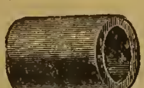
25¢

Watertite Radiator Hose For Fords

A new design red rubber hose that needs no clamps. Guaranteed for 12 months' service. Resists radiator solutions, steam or boiling water. Gives an absolutely watertight connection. Shipping weight, 5 ounces.
61 C 2546—Lower Hose.........25¢
61 C 2547—Upper Hose.........32¢

Adjustable Hose Clamp

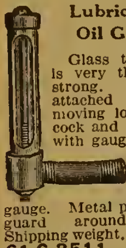
One size fits all Ford inlet and outlet hose connections. One half is slotted to accommodate a projection on end of other half. Made of galvanized steel. Shipping weight, 3 ounces.
61 C 9199.... 7¢



8¢

Radiator Hose

New and better construction. All rubber and fabric. Shipping weight, 4 ounces.
61 C 2524—Lower, 1¾ by 2¾ inches 8¢
61 C 2525—-pper, 2 by 3¾ inches. 12¢



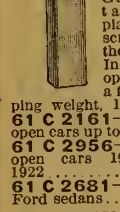
Lubricating Oil Gauge

Glass tube that is very thick and strong. Quickly attached by removing lower petcock and replacing with gauge. Then petcock is screwed on gauge. Metal protecting guard around glass. Shipping weight, 5 ounces.
61 C 2511.......18¢

Lubricating Oil Gauge

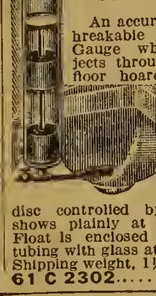
62¢

A reliable polished aluminum Gauge with an indicator that is easily seen, attached to a float. Strongly made. Does away with crawling under fenders to test oil level. Guaranteed for the life of your Ford. Stones will not break it. Won't leak. Shipping weight, 10 ounces.
61 C 2943..........62¢



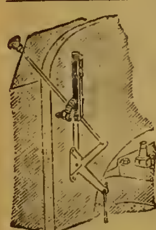
Gasoline Gauge

A reliable, easily read Gauge that takes the place of the screw cap in the gas tank. Indicator is operated by a float. Shipping weight, 1 pound.
61 C 2161—For Ford open cars up to 1920. 75¢
61 C 2956—For Ford open cars 1920-1921, 1922........75¢
61 C 2681—For all Ford sedans........75¢



Oil Gauge

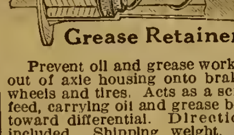
An accurate, nonbreakable type Oil Gauge which projects through the floor board so you can see from the seat exactly how much oil you have. A white disc controlled by a float shows plainly at all times. Float is enclosed in metal tubing with glass at top only. Shipping weight, 1¼ pounds.
61 C 2302.......$1.15



Carburetor Choke Holder

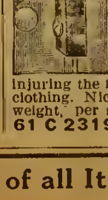
Made only for Fords equipped with self-starters. Practically every other car on the market is equipped with a carburetor choke holder. It enables the driver to regulate the mixture of gas and air in the carburetor from the seat and holds it just where you want it. Easily attached. Shipping weight, 4 ounces.
61 C 2954..46¢

55¢



Grease Retainers

Prevent oil and grease working out of axle housing onto brakes, wheels and tires. Acts as a screw feed, carrying oil and grease back toward differential. Directions included. Shipping weight, per pair, 11 ounces.
61 C 2515—Per pair....55¢



Easy Grip Door Handles for Fords

Slip over the Ford handles. They project above the door and can be easily moved with one finger. They do away with fumbling around and injuring the fingers or tearing the clothing. Nickel-plated. Shipping weight, per set, 10 ounces.
61 C 2319—Set of 3....40¢

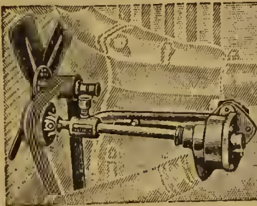
Help Your Ford Motor Keep Cool

Great Radiator Bargain!

By purchasing thousands of these sturdy, fully guaranteed Radiators we are able to save our customers several dollars on each one. We are certain you will agree that you have not seen such a strongly built radiator for anywhere near this remarkably low price. The cores are built of brass strongly reinforced and so designed that we **guarantee they will withstand freezing without breaking.**

$12.75

The tanks are one-piece, seamless brass which gives extra long service. You will notice a big difference on hot days, as the zig-zag construction of the cores gives a much greater cooling surface for the water than is possible with ordinary straight tubes. Spring cradle supports protect the core from severe shocks and take up the strain when the frame twists so that the core is not liable to damage. Water connections of malleable iron. Every radiator is thoroughly tested. The finish of the detachable steel shell is a brilliant black enamel, baked on. Shipping weight, 45 pounds.
161 C 1940—For 1917-18-19-20-21 and 22 Fords $12.75
161 C 1941—For 1916 and older Fords. Original shape.................$12.75



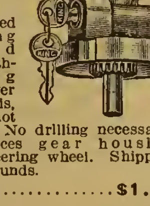
Improved Water Circulating Pump

$7.25

This improved model will keep your Ford cool on the hottest summer days and during the winter the forced circulation will help prevent freezing. Pump is rotary type and forces water through circulating system at a rapid rate. It is exceptionally well constructed with bronze bearings and all working parts very carefully fitted. You can install this pump in a short time—instructions are included. Complete belt and all necessary parts furnished. Shipping weight, 10 pounds.
61 C 2356—For 1916 and older models..............$7.25
61 C 2357—For 1917-20 models..................7.25
61 C 2358—For 1921-22 models..................7.25

Banker Windshield Hinge

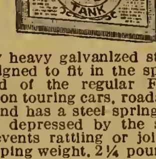
Fits all 1915-21 Ford cars. Converts your regular Ford Windshield into the ventilating type. You can quickly attach it yourself. Adjustment of top shield throws current of air down around the floor boards, carrying away heat from the exhaust, assuring coolness even on the hottest days. Also allows better adjustment for driving in rain. Shipping weight, per pair, 3½ pounds.
61 C 2625—Per pair.....$1.18



Liberty Lock For Fords

$1.25

When locked the steering wheel is held rigidly without having any control over the front wheels, so a thief cannot steer the car. No drilling necessary. Simply replaces gear housing under the steering wheel. Shipping weight, 1½ pounds.
61 C 3442..............$1.25



Never-Out Gasoline Tank For Fords

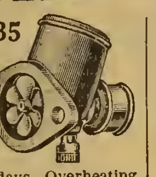
Holds an extra gallon of gasoline. Made of very heavy galvanized steel. Specially designed to fit in the space at either end of the regular Ford gasoline tank on touring cars, roadster and trucks, and has a steel spring on top which is depressed by the seat bar so it prevents rattling or jolting around. Shipping weight, 2¼ pounds.
61 C 2390.................70¢

Robe Rail

Will hold one large robe or several dusters. Neat looking, black enameled. Width, 3¾ inches; length, 28 inches. Shipping weight, 2 pounds.
61 C 1962....................35¢

Sure Cool Water Circulator

$2.35



New design solid brass circulator which greatly increases water circulation. Fords that would overheat within 4 or 5 miles have been run with this device for 100 miles without a sign of overheating even on the hottest days. Overheating ruins engines—stop it with this circulator. Easily attached. Complete with belt. Shipping weight, 2¼ pounds.
61 C 2678—For 1917-1922 Fords inclusive............$2.35

Armstrong Loc-Kap

$2.75

Without Motometer

A beautifully designed ornamental wing style radiator Locking Cap for use with all sizes of motometers. Consists of double cap arrangement that requires no drilling to attach. When locked the cap cannot be removed or "picked" so your motometer is safe. Elegant nickel finish. Total width, 8 inches. Fits all Fords. Steam, water and air tight. Will not rust. Shipping weight, 2¼ pounds.
61 C 3602........................$2.75

Latest Style T-Handle Radiator Cap

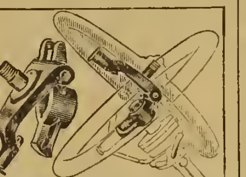
You will like this Cap because it looks much better than the ordinary Ford cap and is a great deal easier to remove or put on. You will not burn or injure your fingers because the wide handles are cool and once the cap is started, you can spin it off or on. Our low price is possible because we buy a great quantity of them. It has a handsome nickel plated finish. Total width, 5½ inches. Shipping weight, 10 ounces.
61 C 3597.............................29¢

Oversize Steering Wheel Aluminum Spider Genuine Walnut Rim

$2.45

Diameter, 17 inches. Makes steering and driving easier and safer. Greater leverage and better grip makes this a big improvement over the small regular wheel. We have never known a Ford driver to change back to the small wheel after using this 17-inch size. Fits all Fords. Genuine walnut rim with heavy aluminum spider. Shipping weight, 3½ pounds.
61 C 2073..........................$2.45

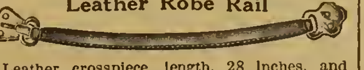
Warner Wheel Tilt For Fords



Make your regular Ford steering wheel into a tilting wheel by using this simple, inexpensive Tilting Device. Wheel lifts so it is easy to get in and out. Wheel is rigid when in driving position. Light pull on catch releases for tilting. Women like it. Can be put on in a few minutes. Needed on all Fords—open or closed models. Shipping weight, 1½ pounds.
61 C 2448..........................$1.25

Draft Preventer

Closes space between windshield and top of car. Keeps out rain and snow. Made of heavy rubber coated auto cloth. Complete with fastenings for all Ford open cars. Shipping weight, 6 ounces.
61 C 2613............................29¢



Leather Robe Rail

Leather crosspiece, length, 28 inches, and finely polished brackets. Noiseless and will not mar finish of car. Shipping weight, 1 pound.
61 C 1970..........................49¢

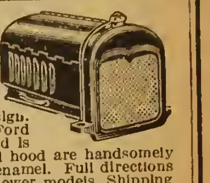
Strong Built Radiator

For Fords

Has a patented flexible bronze core and will stand freezing without breaking. Will withstand the toughest road usage without weakening. Patented shock absorbing brackets positively prevent damage when the frame twists or spreads. The use of bronze in the core makes it proof against the effects of lime and alkali waters. The large round holes allow a greater volume of air to pass through the radiator, which is also a great aid in keeping the water cooler. Every radiator is thoroughly tested. The finish is black enamel baked on, with a gray core. Shipping weight, 50 pounds.
161 C 2998—For 1917-18-19-20-21-22 Fords............$14.95
161 C 2999—For 1916 and older models...14.95
161 C 2997—Same as 161 C 2998, with nickel-plated shell .16.45

Hood for Fords

If your old hood is damaged, rusty or worn out, replace it with this new "Beauty" type which fits all 1917 to 1922 Fords. Many Ford owners use it to dress up the car. Additional side openings make it better looking. Fits perfectly. Lustrous black, enamel finish, baked on. Shipping weight, 18 pounds.
461 C 2354..........................$3.95



Hood and Radiator Shell

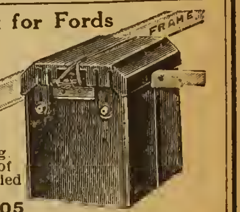
Will give 1915 and 1916 model Ford cars lines similar to very latest models. Consists of a complete radiator shell or cover and a hood cover of new design. Fits lower portion of present Ford fasteners. Easy to attach. Hood is heavy sheet steel. The shell and hood are handsomely finished with two coats of black enamel. Full directions included. Not made for 1917 or newer models. Shipping weight, 36 pounds.
161 C 2353—For 1915-16 models.........$8.70

Running Board Tool Box

$1.65

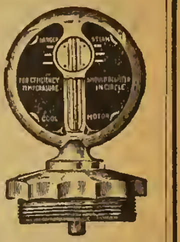
This Box has large carrying capacity, yet it is so neat and shapely that it really improves the appearance of your car. The box is constructed of steel, black enameled. It is fitted with two trunk catches and a lock. Size, 22 by 9 by 7 inches. Shipping weight, 9 pounds.
461 C 2276—Box only..................$1.65

Battery Box for Fords



This Battery Box completely covers the battery, keeping it clean and dry. A battery kept in this condition will last longer. It is quite simple to fit around the hanger, as the openings are properly cut to accommodate all wiring. The box is strongly made of heavy gauge metal, black enameled. Shipping weight, 6 pounds.
461 C 2437—Box....$1.05

Motometer and Cap for Fords

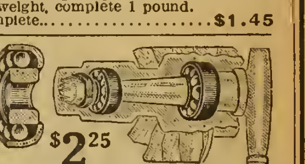


The Motometer indicates the heat of the water, acting like a thermometer. The driver can see from his seat the slightest change in the motor's condition before damage occurs. Handsomely constructed of brass, enameled black. Furnished complete with black radiator cap. Height above radiator cap, 2⅝ inches; width, 2⅛ inches. Shipping weight, 14 ounces.
61 C 3625............$2.85

Ball Thrust Bearings for Ford and Chevrolet 490

Keep the gears together. Ordinary plain washers such as used in Ford and Chevrolet 490 rear axles wear thin and allow gears to separate, which causes considerable trouble such as grinding, jerking and breaking of differential gear teeth. The Ball Thrust Bearing shown above has a number of small hardened balls which rotate so there is scarcely any wear even after several thousand miles of use. Will fit perfectly in either the Ford or Chevrolet 490, taking the place of the usual plain washers. Shipping weight, complete 1 pound.
61 C 2477—Complete....................$1.45

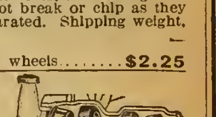
Guaranteed Ball Bearing Set



$2.25

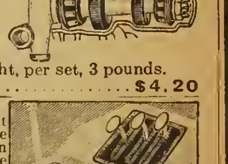
For Ford and Chevrolet 490. Front wheels. Complete with specially made cups and cones and highest grade balls. The construction of the cones is such that the bearings cannot separate. Balls do not work out and break. Even if the cones and bearings part, due to loose adjustments, the bearings are held by the cups so they will not break or chip as they generally do with the balls separated. Shipping weight, per set, 1 pound.
61 C 2238—Complete set for both front wheels........$2.25

Roller Bearings



For Fords and Chevrolet 490. Remove balls and retainers now used and replace with this set. Set includes bearings and retaining sleeves for both front wheels. Shipping weight, per set, 3 pounds.
61 C 2269—Set........................$4.20

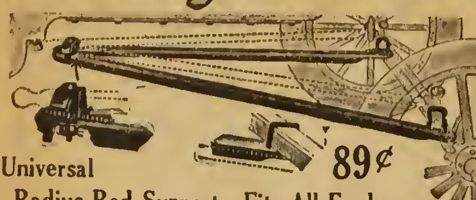
No-Draft Brake Mats



Heavily padded Mats that fit closely around emergency brake and foot pedals of all Ford open or closed cars. They close the present wide openings, keeping out the cold drafts in winter and the heat in summer. Shipping weight of outfit, 9 ounces.
61 C 2606—Complete outfit.................30¢

Lists of all Items in this Book and where to find them are on Pages 322 to 332

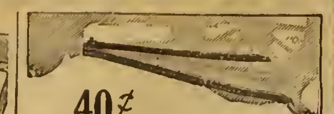
Safety Devices for Fords



Universal Radius Rod Support—Fits All Fords

89¢

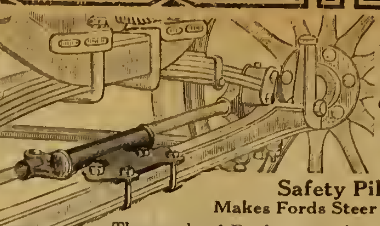
Here is a real Radius Rod Support made of heavy gauge angle iron. Will not break or bend. Every detail thoroughly worked out. Will fit all model Fords. Strengthens and braces front preventing vibration of the front axle. Makes steering easier. Helps prevent bending of radius rods, which often causes serious accidents. Study the illustration above—it shows exactly how it is attached. Do not confuse this with ordinary auxiliary radius rod supports—it is entirely different. Shipping weight, 6 pounds.
61 C 4078..**89¢**



40¢

Radius Rod Support

Will aid in preventing breakage or bending of the radius rods by bracing from lower part of axle. This rod reduces wear on ball and socket at rear of radius rod. Easily and quickly put on. Does not interfere with shock absorbers. Made of angle iron enameled black. Does not fit 1920-21-22 models. Shipping weight, complete, 4½ pounds.
461 C 2517—Complete.....**40¢**

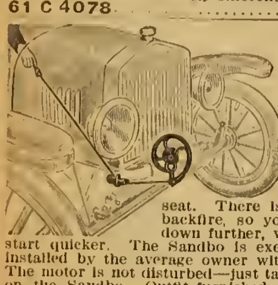


Easily Attached to Front Axle and Steering Cross Rod

$1.95

Safety Pilot
Makes Fords Steer Easier

Thousands of Ford owners have found this Safety Pilot steering device a wonderful driving aid. It holds the front wheels in a straight line. Saves tires by keeping them running straight. Tension on the steering connections eliminates constant wobbling of the wheels when traveling over rough roads. Takes strain off the driver's arms. Even though you take your hands off the steering wheel the car will continue to travel straight. In case you hit a bump the Safety Pilot automatically straightens wheels. Made of malleable iron with a high grade spring so it will give long service. Shipping weight, complete, 5 pounds.
61 C 2287—Complete....................**$1.95**



Start Your Ford From the Seat with a Sandbo Starter

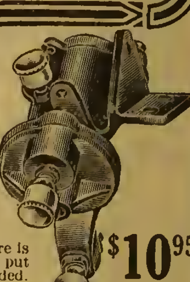
Turns the motor over two compressions on one pull. Two cylinders fire the charge instead of one, as usually occurs when cranking in front. A primer rod is included so you prime from the seat. There is no danger of injury from backfire, so you can set your spark lever down further, which generally makes Fords start quicker. The Sandbo is exceedingly simple and can be installed by the average owner without the aid of a mechanic. The motor is not disturbed—just take off the old crank and slip on the Sandbo. Outfit furnished complete. Shipping weight, complete, 9½ pounds.
61 C 2293..**$9.70**

Rigid Rear Axle Truss

Replacement Parts for Fords shown on Page 585

Braces the Ford rear axles so as to prevent sagging. Keeps the differential gears in perfect alignment which lessens wear on the gears and often helps to eliminate that grinding noise. This saves repair bills. Consists of rod and two black enameled clamps which fasten to rear axle near hubs. Fits all Ford models with standard 56-inch tread. Shipping weight, 3 pounds.
461 C 2518..............................**50¢**

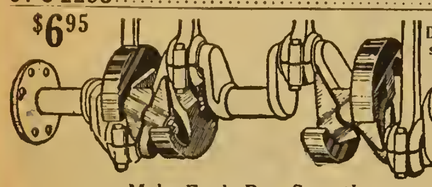
Columbia Irreversible Steering Gear for Fords



The Columbia Steering Gear eliminates that continuous jerking and vibrating of the Ford steering wheel which causes tiredness and a strain on the arms. Rough roads will not bother you as the road shocks are held back by the gear. The steering wheel becomes firm, steady and safe. This is a genuine irreversible safety gear for replacing the Ford steering gear at the bottom of the steering column. It is entirely different from the ordinary attachments which connect to the axle. There is no machine work necessary to install the Columbia—it can be put on by the average owner in a short time. Instructions included. Shipping weight, 9 pounds.
61 C 2361......................................**$10.95**

$10.95

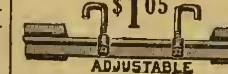
$6.95



Dunn Crankshaft Counterbalance

Make Fords Run Smoother

A great aid in preventing spring in the crankshaft and reduces wear on the bearings and other parts. Can also be used to advantage on racing cars or Ford trucks increasing effective power and making the motors operate more smoothly. The motors operate more smoothly at either high or low speeds, as counterbalances carry pistons over the gap between the explosions and smooth the power impulses. Fits on easily and cannot come off. Shipping weight, per set, 12 pounds.
61 C 5006—Complete set of 4......................**$6.95**



$1.05

ADJUSTABLE

Sturdy Running Board and Fender Brace

Ford running boards become loose and wobbly; but this can be remedied by using this Brace. It holds up the steps, braces the fenders and stops the rattling. You'll notice a big difference as soon as you step on the running boards—they feel solid. Brace consists of angle steel crosspiece with hooks and two short pieces of board to put beneath metal step. Has adjustable clamps. Shipping weight, 13 pounds.
161 C 2347.............................**$1.05**

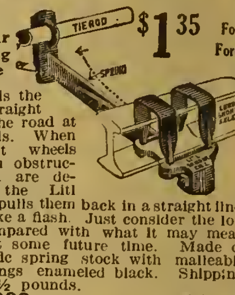
$1.49

Non-Kick Device for Fords

Prevents Injury from Backfire

Every time you crank your Ford you take a chance of being injured by backfire unless it is equipped with a good, efficient non-kick device. When the motor backfires or kicks this Non-Kick Device automatically disengages the crank handle. Does not interfere with cranking of car. Made of heavy steel. Slips right over crank handle. It is not necessary to remove the crank to attach device. Shipping weight, complete, 2 pounds.
61 C 2294—Complete..........**$1.49**

Litl Sho-Fur Steering Device

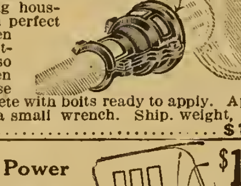


$1.35 For Fords

It holds the car in a straight line on the road at all speeds. When the front wheels strike an obstruction and are deflected, the Litl Sho-Fur pulls them back in a straight line. It acts like a flash. Just consider the low price compared with what it may mean to you at some future time. Made of high grade spring stock with malleable iron fittings enameled black. Shipping weight, 2½ pounds.
61 C 2292.................**$1.35**

Driveshaft Tube Support

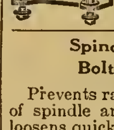
$1.95



An exceptionally strong malleable iron clamp which fits over the end of the driveshaft tube and around the driveshaft roller bearing housing. It holds these parts in perfect alignment even though given the roughest usage, preventing breakage. It may also be used to repair broken tubes which would otherwise need to be replaced. Complete with bolts ready to apply. Applied in a few minutes with only a small wrench. Ship. weight, 4 lbs.
61 C 2387.....................................**$1.95**

Steering Column Brace

Strengthens and makes steering column rigid. Steering wheel is often used as handle in getting in and out of car. This frequently bends and sometimes breaks steering column. Finished in black enamel and furnished with bolts. For all model Fords. Shipping weight, 14 ounces.
61 C 2326........**77¢**

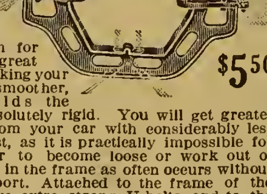


54¢

Crank Arm Support

If the crankcase arm breaks, use this inexpensive Support instead of laying up your car and spending many dollars. Attached in fifteen minutes. Boiler plate steel. Shipping weight, 2½ pounds.
61 C 2548..............**54¢**

Dunn Motor Support



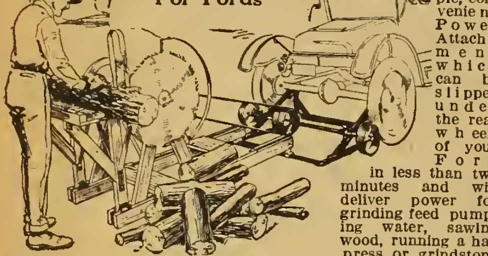
$5.50

The strongest and best Motor Support we ever have seen for Fords. A great help in making your car run smoother, as it holds the motor absolutely rigid. You will get greater service from your car with considerably less repair cost, as it is practically impossible for the motor to become loose or work out of alignment in the frame as often occurs without this support. Attached to the frame of the car by two extra strong U-bolts, and to the motor by bolts through the frames on the flywheel housing. Shipping weight, 15 pounds.
61 C 2385.........................**$5.50**

Steering Rod Silencers

A device which clamps around the steering joints and tie rod. They are a big help in steering the car, for they prevent slack in the steering knuckle connections. Made of high quality spring steel. Shipping weight, per pair, 8 ounces.
61 C 2499—Per pair...........**25¢**

Sturdy Power Attachments For Fords

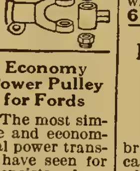


$19.25

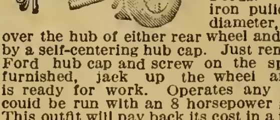
A simple, convenient Power Attachment which can be slipped under the rear wheels of your Ford in less than two minutes and will deliver power for grinding feed pumping water, sawing wood, running a hay press or grindstone or any machine that can be operated by an 8 horsepower gas engine. Made entirely of iron and steel. The wear on the tires is less than one-fifth what the wear would be on the road. It makes no difference where you need the power, you always have it handy. Just put this attachment on your running board and take it out in the field, up to the house or to your pump. Over 30,000 of these machines are earning money for Ford owners. Shipped complete, ready for work. Center pulley is 10 inches in diameter and 6 inches wide. Saw, saw frame and belting not included. **Shipped from Factory in Central Indiana.** Ship. wt., 175 lbs.
261 C 5441—Complete outfit..................**$19.25**

Spindle Arm Adjustment Bolts and Anti-Rattlers

62¢



Prevents rattling and loosening of spindle arm, which generally loosens quickly. Easily attached. Takes up wear. Shipping weight, per pair, ½ pound.
61 C 2507—Per pair....**62¢**



Economy Power Pulley for Fords

The most simple and economical power transmitter we have seen for Fords. Consists of an iron pulley 10 inches in diameter, which slips over the hub of either rear wheel and is held in place by a self-centering hub cap. Just remove the regular Ford hub cap and screw on the special hub cap furnished, jack up the wheel and your Ford is ready for work. Operates any machinery that could be run with an 8 horsepower gasoline engine. This outfit will pay back its cost in a few hours' time. There is nothing to wear out, so it will give many years of service. It takes up very little space, so may be carried in the car. Pulley is 5 inches wide. Belt not included. Ship. wt., complete, 24 pounds.
461 C 2317—Outfit, complete........**$4.98**

Motor Support For Fords

99¢

Prevents broken crank case arm which always is expensive and means delay. Also braces motor so vibration is minimized, making motor run smoother. Hard roads and bumps will not break arms with this support. Not necessary to remove motor. Easily put on. Shipping weight, 4 pounds.
461 C 2348......................**99¢**

Brake Rod Anti-Rattlers

25¢

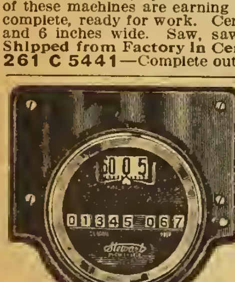
Wear causes brake rod connections to become loose and wobbly. This causes rattling that is hard to locate. These Anti-Rattlers hold both front and rear connections of the brake rods firmly and reduce the wear, besides doing away with the annoying rattle. Shipping weight, per set, 4 ounces.
61 C 2500—Set of 4............**25¢**

Rear Fender Braces for Fords

They will make your fenders strong, noiseless and much better looking, as they are held up in place instead of drooping over, which sometimes cuts the tire. These braces are made of stamped steel and designed to give maximum strength. They are bolted to the fender and screwed under the corner of the body with heavy screws. Bolts and screws included. Shipping weight, per pair, 6 pounds.
61 C 2307—Per pair...............**45¢**

Radius Rod Anti-Rattler Ball Socket

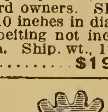
The ball joint into which the rear end of the radius rod fits wears down after a Ford has been used for some time. This causes the radius rod to rattle in a very annoying manner. This device automatically takes up wear by having a patented spring which does away with the frequent adjustments necessary with regular style sockets. To install, you simply take off old socket and put this in its place—the work of but a few minutes. Shipping weight, 8 ounces.
61 C 2503..................**26¢**



Stewart Speedometer Model 160-A

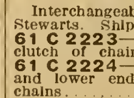
Every Ford needs a Speedometer, as it is the only way to determine speed and check up the mileage from tires and gasoline. Speedometer has a special flange for all Fords that have instrument or cowl board. Shipped complete with all regular Stewart equipment, including flexible shaft and swivel joint. Has a rotating speed dial (60-mile capacity)—10,000-mile season register and a 100-mile trip register. Black enamel finish. Diameter, 3⅜ inches; depth, 2½ inches. Shipping weight, 11 pounds.
61 C 2197.......**$12.95**

Speedometer Fiber Gears



Sixteen teeth. Made of fresh sheet fiber, accurate mesh, made in cotter pin type. For Stewart speedometers only. Shipping weight, 2 ounces.
61 C 2216—No. 1, 2¼-inch diameter........**10¢**
61 C 2217—No. 2, 2-inch diameter........**10¢**
61 C 2218—No. 3, 1¾-inch diameter........**10¢**
61 C 2222 — Standard Jones, Sears Cross fiber gears for 1915 Fords, 1¾ inches, 12 teeth......**10¢**

Speedometer Clutches and Shaft Fittings



2224
2225 2223

Interchangeable with all Stewarts. Ship. wt., 2 oz.
61 C 2223—Upper end clutch of chains.....**8¢**
61 C 2224—Sliding bar and lower end clutch of chains..............**15¢**
61 C 2225—Links for chains. Per foot........**8¢**

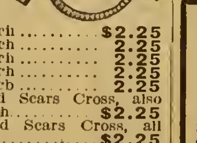
Finest Speedometer Swivel Joints

$2.30

An improved Swivel Joint made of the best materials. All gears are carefully fitted insuring great durability and wearing qualities. The swivel can be adjusted for wear or taken apart for replacing worn gears or minor parts. Fits all Stewart speedometers perfectly. Right hand drive means for right wheel as you look at it from driver's seat. Shipping weight, 1¼ pounds.
61 C 2544—Right......................**$2.30**
61 C 2545—Left......................**2.30**

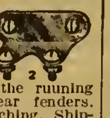
The swivel joints listed below are made of excellent materials and are the nonadjustable type.
61 C 2542—Right......................**$1.58**
61 C 2543—Left......................**1.58**

Complete Speedometer Shaft



Complete with end fittings to fit Stewart and other speedometers. The flexible tube is made of high grade rolled steel, exceptionally strong. Ship. wt., 4 lbs.
61 C 2208—For Stewart, 50-inch..........**$2.25**
61 C 2209—For Stewart, 54-inch..........**2.25**
61 C 2210—For Stewart, 60-inch..........**2.25**
61 C 2211—For Stewart, 66-inch..........**2.25**
61 C 2212—For Stewart, 72-inch..........**2.25**
61 C 2213—For Standard and Sears Cross, also Jones 1915 Ford equipment, 54-inch..........**$2.25**
61 C 2214—For Standard and Sears Cross, all models, 60-inch..........**$2.25**
61 C 2215—For Standard and Sears Cross, all models, 66-inch..........**$2.25**

Fender Anti-Rattler



Old fenders, if not too badly torn, may remain in service for a long time with the aid of these little braces. They stop rattling, holding fenders firmly to the running board guard. Fit front or rear fenders. Screws and nuts included for attaching. Shipping weight, per set, 8 ounces.
61 C 2391—Set of 4..............**15¢**

Ford Owners!
Don't Miss Page 574

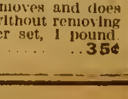
We sell thousands of batteries every month direct to Ford owners. Accept our 30-Day Trial Offer before buying a battery elsewhere. Our guarantee gives you absolute protection on quality.

Steering Gear Anti-Rattle Ball Socket

26¢

For use on steering gear connecting rods, where it takes the place of steel cap. Spring behind pivot takes up the wear and eliminates all rattle. When once attached no further adjustment needed. Fully dependable. Shipping weight, per pair, 4 ounces.
61 C 2502—Per pair...........**26¢**

Brake Rod Supports



35¢

Replaces the present pressed steel support on Ford cars. Malleable Iron. Hardened steel bar is held in tension against brake rod. Bar moves and does not wear rod. Attached without removing rod. Shipping weight, per set, 1 pound.
61 C 2504—Set of 2...........**35¢**

See Index—Pages 323 to 333—for Garage Door Hardware

Improvements for Fords

Improved Steelbilt Shock Absorbers

$5.25 Set of 4

You will never know the full amount of pleasure you can get from your Ford until you put on shock absorbers. These Improved Steelbilt Absorbers are stronger, smoother riding, and far better in every way than any of this type we ever sold before. New patented features allow the easy acting coil springs to open further and more freely than any others ever do; so you may ride over the roughest roads without being jolted about. Your Ford will hold the road better and steer easier; the tires will last longer and repair bills will be less—for the soft, easy, smooth action of these eight-coil springs prevents even the little bumps from jolting the car and passengers. Special fastenings prevent the springs from coming loose. Improved drop forged steel perches prevent springs hitting the brake drums. We want you to prove every word we've said by purchasing a set and using them on your car for two months—60 full days. If you are not fully satisfied, send them back and we will return your money and all transportation charges. You may put on these absorbers yourself as there are no holes of any kind to drill. Shipping weight, per set, 18 pounds.

461 C 2419—For touring cars. Set of 4 ..... $5.25
461 C 2420—For roadsters. Set of 4 ..... 5.25
461 C 2421—For Ford coupes and sedans. Set of 4 ..... 5.25

$11.50 Set of 4

Smooth Action Rebound Absorbers for Fords

Practically eliminate the bouncing of the body so common with Fords. This will have a remarkable effect on the increase in mileage from your tires and will help prevent spring breakage. Bumps which usually throw the passengers from the seat can be driven over at a fair rate of speed, with practically no jar. May be adjusted to suit the load of your car and are easily attached without drilling or machine work. All attachments are included so you may put them on yourself. Fit all Ford cars. Shipping weights: Set of four, 16 pounds; rear pair only, 8 pounds.

461 C 2496—Complete set of 4 ..... $11.50
461 C 2315—Pair for rear only 6.25

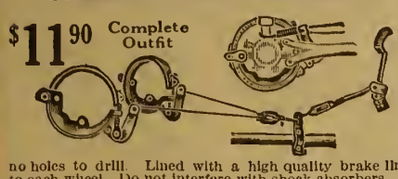
$5.40

Easy Acting

W. X. Shock Absorbers

W. X. Shock Absorbers will make your Ford ride as smoothly as expensive cars with long wheel bases. They make steering easier, reduce maintenance cost and prevent sidesway and bouncing. A wrench is the only tool needed for installing W. X. They can be quickly and easily put on. Owing to the changing fulcrums of the levers from normal to full load, greater flexibility of action is obtained. This feature, combined with the high grade compression springs at each corner of the car, assures easy riding and makes breaking impossible. Stop on the lever prevents regular springs touching axle. Shipping weight, per set, 14 pounds.

461 C 2412—For Roadster. Set of 4. $5.40
461 C 2413—For Touring. Set of 4. 5.40



$11.90 Complete Outfit

Stronghold Rear Brakes

A dependable Brake direct on the rear wheels of your Ford like those used on the highest priced cars. Practically eliminates transmission and rear axle troubles caused by the strain of jumping and jerking. No grinding, chattering or jerking when you stop with Stronghold Brakes. Operated by foot pedal. No more adjusting transmission brake bands—no rods to rattle. Connected with 3/16-inch steel cable. Can be installed in about an hour; no holes to drill. Lined with a high quality brake lining. Special steel cable equalizes braking force to each wheel. Do not interfere with shock absorbers. Shipping weight of outfit, 12 pounds.

61 C 1927—Complete outfit $11.90

Non-Chatter Transmission Compound

Mix with oil and pour on the transmission band drums. Works into the bands and stops the chatter, jumping and jerking. It is a non-conductor of electricity. Will not clog the oil pipe. Shipping weight, 2 ounces.

61 C 2677 ..... 24¢

Rebound Check Spring and Strap

$1.85

Makes All Fords Ride Smoother

Simple, effective recoil attachment, which allows a natural downward motion, yet prevents breakage by absorbing the shocks when springs rise above normal position. Springs are made of oil-tempered steel attached to a fabric strap. No holes to drill. For rear only. Shipping weight, 3½ pounds.

61 C 2409—Per pair $1.85

Pressed Steel Brake Shoes

$1.25

Exceptionally strong and unbreakable, saving you shoe replacement cost. Lined with high quality brakeband lining. Prevent grabbing—but will lock wheels if necessary. Lining quickly replaced when worn. One-piece shoes. Best steel. Fit all Fords 1909-1922. Shipping weight, per pair, 4 pounds.

61 C 2512—Per pair $1.25

$1.15

Best Quality Transmission Band Linings

You never know what minute children will run in front of your car, when the car ahead will stop quickly, or when a machine will speed across in front of you. To meet the demand of Ford owners for a real high grade, first quality set of Transmission Linings, we have, after thorough tests, added this closely woven, specially treated lining to our stock. Our Improved Linings will give greater freedom from grabbing, chattering and burning than is possible with ordinary sets. They wear down slowly and evenly so they do not glaze and char or grab. Rivets included. Shipping weight, per set, 1 pound.

61 C 2392—Set of 3 ..... $1.15

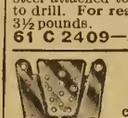
Reflex Cork Disc Transmission Linings

$1.75

The cork holds securely but does not cause grabbing, jerking or chattering when starting or stopping, as usually happens with ordinary linings. Cushioning effect of the cork discs lessens wear on the fabric in the lining and the strain on the engine, transmission and rear axle. The smooth, velvety action of this lining is very noticeable as it is treated with mica, the best known heat-resisting lubricant. The discs of cork take hold gradually but firmly. Rivets included. Shipping weight, per set, 14 ounces.

61 C 2443—Set of 3 ..... $1.75

Yale Transmission Band Oiler



Fits under the transmission plate cover. It catches oil, then distributes it over transmission bands, which makes the bands last longer, keeps them cooler and helps to eliminate a lot of jumping and jerking when stopping and starting. Can be put on in five minutes. Shipping weight, 4 ounces.

61 C 2321 ..... 85¢

Denonco Non-Chatter Transmission Bands

Remove the chatter, jumping and jerking. Hinged at the center, they take hold evenly all the way around the drums and do not grab in spots. Faced with high quality lining. You may renew the lining without removing the upper half of transmission case. Shipping weight, per set, 3½ lbs.

61 C 2360—Set of 3 ..... $4.95

42¢ Transmission Lining for Fords

Composed of long fiber material thoroughly impregnated with a compound which makes it practically impervious to the action of oil, grease or heat. There is no wire used in its construction, so there is no possibility of short-circuiting the magneto. Rivets included. Ship. weight, set, ¾ lb.

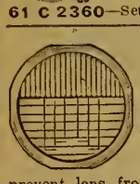
61 C 2468—Set of 3. 42¢

Sturdy Transmission Tool

Clamp holds the band in position and the wrench handles the adjustment nuts. Wrench is held by a chain so it can't be lost in transmission case. Black enamel finish. Shipping wt., 7 oz.

61 C 2366 ..... 40¢

McKee Lens for Fords



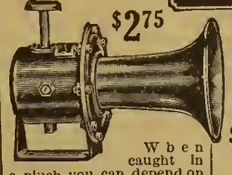
Eliminates all glare, thereby complying with most state and city laws. Designed to destroy headlight glare without detracting from the volume of projection of light. Squared sides prevent lens from turning and deflecting the rays. Fit all Ford lamps. Shipping weight, per pair, 2¼ pounds.

61 C 6849—Per pair $1.59

Warning Signals for Fords

Hand Horn for Fords

$2.75

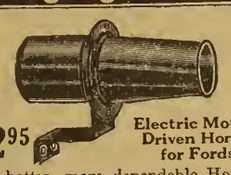


When caught in a pinch you can depend on this Horn. Mechanism is simple and operates easily. Special bracket fits either right or left side of car and is arranged for easy attaching. Body and arm of pressed steel, attractively enameled black. So strongly made that it will stand up under continuous hard service. Length over all, 8½ inches; diameter of bell, 4¾ inches. Shipping weight, complete, 4 pounds.

61 C 3376—Complete $2.75

Electric Motor Driven Horn for Fords

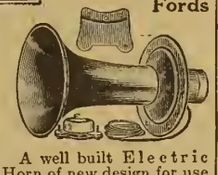
$2.95



A better, more dependable Horn for Ford cars. It gives a loud clear warning. A motor rotates against the horn diaphragm so that the volume of the sound can be varied by a simple adjustment. It operates from the storage battery and requires but little power. It is equipped with a special bracket which makes it easy to attach to all Fords. Instructions for installing are included. All black finish. Length, 8½ inches. Shipping weight, complete, 5 pounds.

61 C 2184—Complete $2.95

Magneto Horn for Fords

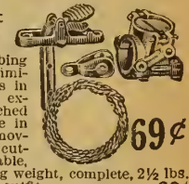


A well built Electric Horn of new design for use with Ford magneto. No batteries to wear out. Fitted with extra large diaphragm which gives a strong, even, clear tone. Attached under the hood; special bracket included. Black enamel finish. Shipping weight, 3 pounds.

61 C 1955 ..... $2.10

A Battery for Fords is shown on Page 574

Standard Cutout Outfit for Fords



Helpful for hill climbing and hard pulls, as it eliminates back pressure. Aids in testing motor, as each explosion is distinct. Attached by cutting V-shaped hole in exhaust pipe without removing pipe. Complete with cutout valve, lock pedal, cable, pulley and spring. Shipping weight, complete, 2½ lbs.

69¢

61 C 2333—Complete outfit ..... 69¢

Natural Vision Lens for Fords

The bottom half bends the light rays downward, completely flooding the road with a strong light. The top half is of the diffusing type entirely breaking up the glare. Will fit all Fords. The sides are squared so that the lens cannot turn. Shipping weight, per pair, 2 pounds.

61 C 6891—Per pair $1.05

Muffler Cutout

Strong, extra heavy and serviceable Cut-out, much better than type generally used on Ford cars. Simply cut a V-shaped hole in the exhaust pipe and attach with special clamps furnished. Device is made of strong casting. It is a great aid in testing a motor and enables the motor to do heavier work. A coil spring holds the cutout closed when not in use so that there is no noise from the explosions. Shipping weight of cut, 3 pounds.

61 C 2959—Complete outfit $1.23

Parts for Ford Lamps

All parts shown here will fit perfectly on all lamps for 1915 to 1922 models. Doors complete with glass. Black enameled rims. Shipping weights shown below.

61 C 2003—Headlight door, all black (replaces Ford No. 6594X), 2 pounds. Each ..... 39¢

61C 2028—Headlight door, nickel and black, 2 pounds. Each ..... 65¢

61 C 2025—Headlight reflector. Highly polished, silver plated (replaces Ford No. 6585X), 1½ pounds. Each ..... 49¢

Loud Tone Compression Whistle For Fords

$1.98

A Loud Tone Whistle with a special attachment for ½-inch spark plugs, making it suitable for Fords. The bell of the whistle is made of aluminum and so shaped that it gives a penetrating sound with little compression. The attaching parts are made of bronze. The valve is the self-cleaning type so you are always certain of a good, clear projecting signal. Shipped complete with cord and attachment to fit in Ford spark plug hole. Shipping weight, complete, 2 pounds.

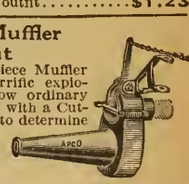
61 C 3445—Complete $1.98

Four-Tone Melody Chime Horn For Fords

Ford owners who desire a most effective warning signal with pleasant tone will appreciate this Four-tone Melody Horn. It will clear the road for you quickly because of its distinctive sound. The tone may be varied by regulating the pressure on the control lever. You may warn other drivers or pedestrians with this horn where the regular Ford horn would not be heard. It is well made of brass, nickel plated. The valve is made of malleable iron and fits the Ford exhaust pipe perfectly without removing the pipe. Outfit includes the chime horn, valve, nickel plated control lever, wire cable, pulley and all necessary attachments for fitting all Ford models. Shipping weight, complete, 5½ pounds.

61 C 2384—Complete outfit $5.25

Combination Muffler and Cutout

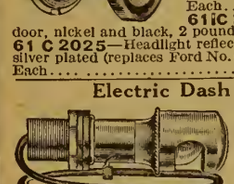


A strongly built one-piece Muffler which will withstand terrific explosions such as would blow ordinary mufflers to pieces. Fitted with a Cut-out for testing the motor to determine when a cylinder is missing. Valve acts as an automatic relief in case of muffler exclosions. Body of muffler is a one-piece casting with no bolts, plates, nuts or rivets to work loose or rattle. Complete with foot pedal and screws, ready to attach. Shipping weight, 6½ pounds.

61 C 2367 ..... $3.80

Electric Dash Lamp

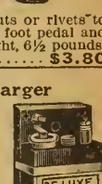
65¢



For wood or steel dash. Made especially for Fords. Convenient, useful and easy to install. Gives plenty of light for you to see the speedometer or clock when you are driving in the dark. About two inches long. Has self-contained switch, 6-8 volt bulb included. Double contact. Shipping weight complete, 6 ounces.

61 C 2029—Complete outfit ..... 65¢

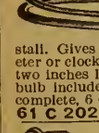
De Luxe Battery Charger



When connected with the regular Ford magneto, makes it serve the same purpose as a generator for charging batteries. It works with any 6-volt battery. Besides giving bright lights at all times the battery current is a big help in making your Ford start more easily and quickly. Does not affect ignition while charging battery. Easily installed. Shipping weight, 2 pounds.

61 C 4095—Charger only. Without battery $5.95

Electric Taillight



Ruby semaphore lens; white side light. Two candlepower, 6-volt bulb. Black finish. Shipping weight, each, 12 ounces.

61 C 2022—For Fords with Prop Bolt; 6-volt double contact bulb, 1915-19 cars. Each ..... 49¢

61 C 2026—6-volt single contact bulb for 1920-22 models only. Each 49¢

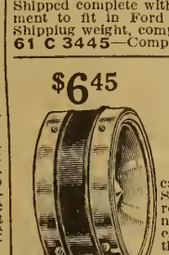
Regulite Switch

Connected with headlights and magneto it maintains a constant current regardless of engine speed. Prevents burning out of lamps. Has three steps so that it can be adapted to Ford Magnetos of any strength. Hard rubber finish. Shipping weight, each, 1 pound.

61 C 2051—Each $1.35

New Drum Shaped Electric Head Lamp For Fords

$6.45



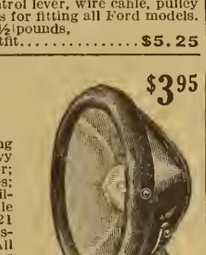
For 1915 to 1922 Ford cars. This handsome Drum Shaped Head Lamp was recently designed to meet the need for a lamp that would be extremely attractive and at the same time effective. Body is drawn in one piece. All plated parts are brass, highly polished and finished. Bulb can be adjusted from rear of lamp. Black and nickel finish. Shipping weight, per pair, 13 pounds.

61 C 2030—With 6-volt bulb. Fit all Fords with storage battery. Per pair $6.45

61 C 2031—With 9-volt bulb, for use with Ford magneto. Per pair $6.45

Electric Headlights For Fords

$3.95



A good looking Head Lamp. Heavy French roll door; diameter, 9 inches; reflectors highly silver plated, adjustable focusing device; 21 candlepower. Edison connections. All black. Shipping weight, per pair, 10 pounds.

61 C 2016—With 9-volt bulb for use where lights are operated from the magneto. Per pair $3.95

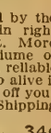
61 C 2032—With 6-volt bulb. Fits 1920-21-22 Fords equipped with 6-volt battery. Per pair $3.95

Brite Lite Plug for Fords

For lights operated by the magneto. Attaches in right hand headlight socket. More than doubles the volume of light at all engine speeds and provides strong, reliable light for slow engine speeds. Keeps one bulb alive if the other burns out. Can be put on or taken off your car in ten seconds. Nothing to wear out. Shipping weight, 3 ounces.

61 C 2056 ..... 34¢

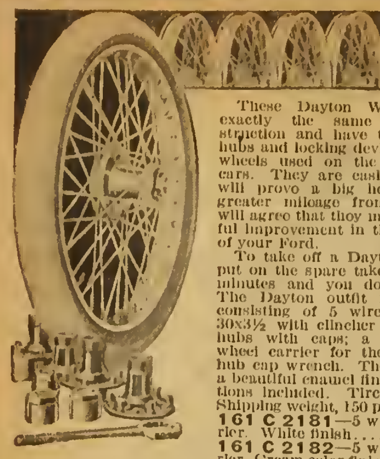
Double Contact Elbow Plug



Made of hard rubber with screw cap. Double contact. Often much handier than a straight plug. Fits all standard sockets used in auto lamps or on dashes. Shipping weight, 2 ounces.

61 C 2013 ..... 18¢

Dayton Wire Wheels

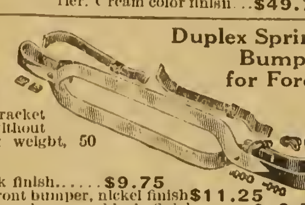


These Dayton Wheels are of exactly the same strong construction and have the same type hubs and locking device as the wire wheels used on the highest price cars. They are easier riding and will prove a big help in getting greater mileage from tires. You will agree that they make a wonderful improvement in the appearance of your Ford.

To take off a Dayton wheel and put on the spare takes only 3 or 4 minutes and you don't get dirty. The Dayton outfit is complete—consisting of 5 wire wheels, size 30x3½ with clincher rims; 4 inner hubs with caps; a special spare wheel carrier for the rear, and a hub cap wrench. The wheels have a beautiful enamel finish. Instructions included. Tire not included. Shipping weight, 150 pounds.

161 C 2181—5 wheels and carrier. White finish.......**$49.75**
161 C 2182—5 wheels and carrier. Cream color finish...**$49.75**

Duplex Spring Bumper for Fords



The very latest type, most serviceable, finest looking tempered steel, Double Spring Bumpers for all Fords. Special bracket fastens securely without drilling. Shipping weight, 50 pounds.

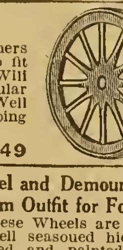
161 C 1946—Front bumper, black finish......**$9.75**
161 C 1949—Front bumper, nickel finish**$11.25**
161 C 1942—Rear bumper, black finish...... **$ 9.75**
161 C 1997—Rear bumper, nickel finish.........**11.25**

95¢ Strapless Running Board Tire Holder

It is reliable, convenient, lasting. Has no unsightly straps, chains or cables to break or wear out. No loose parts to rattle or get lost. To remove tire simply unlock the padlock, lift up on the tire and it is free. Easily slipped back into place. Whole operation can be done in less time than it takes to fasten straps. Made of steel throughout. No drilling of body to attach. For tires on or off demountable rims. Padlock not furnished. Ship. weights—61 C 1925, 4 pounds; 61 C 1926, 5 pounds.

61 C 1925—For one tire. Each.................**$ .95**
61 C 1926—For two tires. Each................ **1.45**

30x3½ Wheels



These Wheels will enable Ford owners who now have 30x3 wheels in front to fit their cars with 30x3½ tires all around. Will fit your present front or rear hubs. Regular clincher rim (not demountable). Well seasoned hickory, black finish. Shipping weight, each, 19 pounds.

161 C 2270—Each...........**$3.49**

Wheel and Demountable Rim Outfit for Fords

$19.50

These Wheels are made of well seasoned hickory, primed and painted. To make a tire change on the road it is only necessary to slip off the rim and put on the spare. Outfit consists of five 30x3½ demountable clincher rims, four wood wheels, rim wrench and bolts for attaching to your hubs. Furnished in either black or natural wood finish. Shipping weight of outfit, 135 pounds.

261 C 1974—Black finish. Complete outfit.....**$19.50**
261 C 1975—Natural finish. Complete outfit... **19.50**

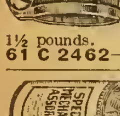
Shipped Direct from Factory in Central Michigan

Demountable Wheel Outfit

With these parts Ford owners who do not have demountable rims may convert the four wheels now on the car into quick demountables. It is not necessary to change present tire equipment. No machine work required. To change wheels simply remove the bolts and slip the wheel off over the hub. The outfit consists of flanges for five wheels, 24 bolts and nuts, and lock washers. Any regular Ford wheel can be used as a spare. Shipping weight of outfit, 9 pounds.

61 C 2249—Outfit complete.....................**$5.50**

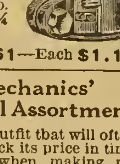
Handy Wheel Puller



45¢ Easy to disengage wheels that stick tightly with this puller. Made of malleable iron accurately threaded. Shipping weight, each, 1½ pounds.

61 C 2462—Each.....**45¢**

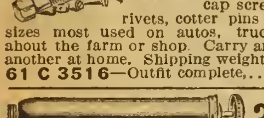
Mosco Wheel Puller



Raps on plunger easily loosen the wheel without injury to the threads or puller. A big improvement over ordinary pullers. Ship. wt., each, 1¾ pounds.

61 C 2461—Each **$1.19**

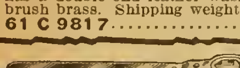
Mechanics' Special Assortment



An outfit that will often pay back its price in time saved when making repairs, as it consists of cap screws, nuts, bolts, set screws, rivets, cotter pins and lock washers, in the sizes most used on autos, trucks, tractors and machinery about the farm or shop. Carry an outfit in your car and keep another at home. Shipping weight of outfit, 4½ pounds.

61 C 3516—Outfit complete,...................**$1.08**

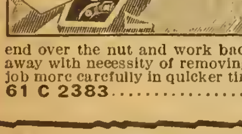
35¢ Oil and Grease Gun for Fords



The end of Gun is threaded to fit the Ford differential. Constructed of extra heavy metal tubing, 1½ by 9 inches. Plunger has a double end leather washer. Two nozzles. Finished in brush brass. Shipping weight, 1 pound.

61 C 9817..................................**35¢**

Footbrake and Reverse Ratchet Wrench



Two of the most important adjustments for Ford owners to watch are the foot brake and reverse hands in the transmission. With this Wrench you slip the end over the nut and work back and forth. The ratchet does away with necessity of removing the wrench so you may do the job more carefully in quicker time. Shipping weight, ½ pound.

61 C 2383..................................**36¢**

Lower Prices on Well Known Supplies for Fords

Standard Fenders for Fords

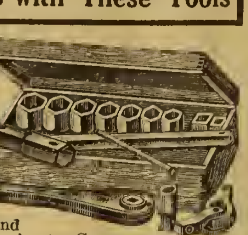
$9.95

Fit all Ford open or closed cars. Beautiful, strongly constructed fenders that are duplicates in design of regular Ford fenders and are perfectly interchangeable. Baked-on enamel finish. We placed an exceedingly large order for these fenders at a low market price of steel, and are giving you the benefit of our purchase. The lowest prices we have ever quoted for such fenders. **Shipped from Factory in Southern Ohio.** Ship. wt., set of four, 80 lbs.

261 C 2253—Set of 4. For 1909-16 Fords................**$9.95**
261 C 2271—Set of 4. For 1917-22 Fords................ **9.95**

It Is Easy to Repair Fords with These Tools

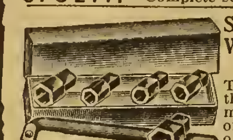
Special All Size Ratchet Wrench Set for Fords



This Special Ratchet Wrench Set will help to keep your car out of the garage. With it you may tighten nuts and bolts that are usually left for the repairman because ordinary wrenches are hard to use. The sockets fit the nuts tightly, preventing battering up the edges, which makes nuts or bolts hard to turn. You don't have to keep removing the wrench for a new hold—simply work the ratchet handle back and forth. A fine socket for nearly every bolt and nut. Contains a new improved flat ratchet handle; one long extension rod; one universal joint; one pressed steel spark plug socket 31/32 by 4 inches long, and ten other most popular sizes of guaranteed pressed steel sockets. The 17/32 and 19/32 hexagon sockets are tapered to handle nuts and bolts where ordinary sockets will not fit. Set is packed in strong wooden box. Shipping weight, per set, 4 pounds.

61 C 2441—Complete set..................................**$2.75**

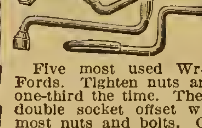
Service Wrench Set



To meet the demands of Ford owners for a good, serviceable, low price Socket Wrench Set, we offer you the five popular hexagon sockets—opening sizes; 17/32, 19/32, 21/32, 25/32 and 31/32 inch. Strong offset handle has friction holding device. The 17/32 and 19/32 sizes are tapered. Shipping weight, per set, 1½ pounds.

61 C 2389—Set..........**95¢**

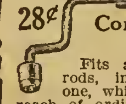
Handy Wrench Set for Fords



Five most used Wrenches for Fords. Tighten nuts and bolts in one-third the time. The triple and double socket offset wrenches fit most nuts and bolts. Other three wrenches fit connecting rods, flywheel and ratchet for reverse hand. Shipping weight, per set, 5 pounds.

61 C 2185—Set of 5...**$1.85**

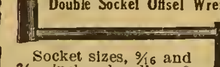
Connecting Rod Wrench



28¢ Fits all Ford connecting rods, including the fourth one, which is located out of reach of ordinary wrenches. No Ford owner should be without it; it may save your laying up the car. Shipping weight, 1 pound.

61 C 2375..............**28¢**

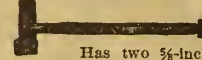
Double Socket Offset Wrench



49¢ Socket sizes, 9/16 and ¾ inch, handle, 9 inches. Used on brakeshoe support, crankshaft (main) bearing, fan bracket, steering gear post, steering post bracket, spindle bolt and nut, lamp bracket nuts, front spring clip nuts and universal ball cap. Shipping weight, 1¼ pounds.

61 C 2377..............**49¢**

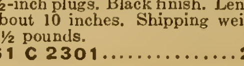
Triple Socket Wrench



Has two ⅝-inch hexagon sockets and one ½-inch hexagon socket, fit axle housing bolt and nut, brake shoe support bolt, cylinder head cap screw, dash bracket to dash bolt and nut, drive shaft roller bearing stud and nut, water cylinder inlet connection cap screw, water cylinder outlet connection cap screw. Shipping weight, 1 pound.

61 C 2440..............**35¢**

Spark Plug and Cylinder Head Wrench



27¢ A strong, commonly used Wrench for Fords. The socket fits every cylinder head bolt and the open end fits Champion X and some other ½-inch plugs. Black finish. Length, about 10 inches. Shipping weight, 1½ pounds.

61 C 2301..............**27¢**

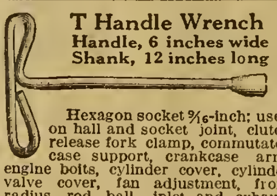
Drop Forged Wrenches

$1.59 Six Wrenches with twelve openings made to fit every nut on a Ford car. One thin wrench with offset bar for reverse gear and brake adjustments. Openings, ⅜, 7/16, ½, 9/16, ⅝, ¾, 11/16, 25/32, ⅞, 15/16. Thin wrench, ⅝, 11/16. The most inaccessible nuts and bolts easily reached. You will have no trouble with openings spreading as with cheap wrenches. Packed in neat box. Shipping weight, per set, 3 pounds.

61 C 2460—Set of 6.....**$1.59**

T Handle Wrench

Handle, 6 inches wide Shank, 12 inches long



Hexagon socket 9/16-inch; used on ball and socket joint, clutch release fork clamp, commutator case support, crankcase arm, engine bolts, cylinder cover, cylinder valve cover, fan adjustment, front radius rod ball, inlet and exhaust clamp, muffler bracket, radiator and transmission cover. Shipping weight 1¼ pounds.

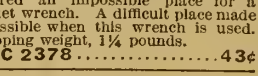
61 C 2376................**40¢**

Speed Wrenches

55¢ Long shank brace hexagon Socket Wrenches are used as speed tools in assembling and dismantling cars. Are most efficient when used on a series of the same sized nuts as on cylinder heads. To gain the most time in removing nuts, first release the nut with an offset socket wrench, then spin nut off with Brace or Speed wrench. These tools are big time savers and are considered indispensable in garages where they have been tried. Average shipping weight, 1½ pounds.

61 C 2370—7/16-inch size.....**55¢**
61 C 2371—½-inch size.....**55¢**
61 C 2372—9/16-inch size.....**55¢**
61 C 2373—19/32-inch size....**55¢**
61 C 2374—⅝-inch size.....**55¢**

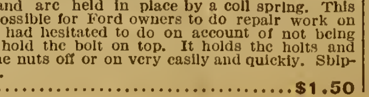
Flywheel Wrench



43¢ Socket size, 11/16-inch hexagon. Used on flywheel cap screws heretofore considered an impossible place for a socket wrench. A difficult place made accessible when this wrench is used. Shipping weight, 1¼ pounds.

61 C 2378................**43¢**

"Save-a-Man" Speedy Wrench for Fords



$1.50 One man with this Wrench can remove all the bolts from engine base or transmission case where it fastens near the center in less time than it generally takes two men with ordinary wrenches. The sockets are carefully machined and are held in place by a coil spring. This wrench will make it possible for Ford owners to do repair work on their cars which they had hesitated to do on account of not being able to satisfactorily hold the bolt on top. It holds the bolts and enables you to spin the nuts off or on very easily and quickly. Shipping weight, 3 pounds.

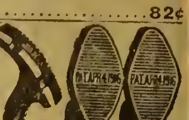
61 C 2379..................................**$1.50**

Rives Pedal Pads

82¢ Ford owners who use these wide extension Pedals tell us they wouldn't think of driving again without them. You will feel the same way after using them a few days. They completely eliminate the possibility of feet slipping off. The extra width of the pedal combined with the rubber foot rest, makes driving much more pleasant and safer. Three pedals in set, two wide and one narrow for reverse pedal. Shipping weight, per set, 1½ pounds.

61 C 2299—Set of 3..........................**82¢**

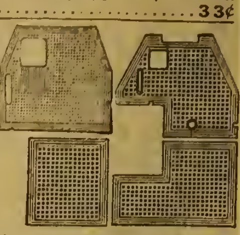
Pedal Pads



33¢ Prevent feet from slipping off pedals. Rubber composition with metal bands for attaching. Especially desirable in wet, slushy weather. Quickly and easily attached to pedal. Shipping weight, per set, 8 ounces.

61 C 2341—Set of 3..........................**33¢**

Mats for Fords



There is a big demand on the part of Ford owners for good grade Rubber Mats. We assure you these mats will give good service and satisfy you in every way. They are made of a good quality rubber composition with a strong fabric foundation. Front mats fit either touring cars or roadsters. Shipping weight for front and rear open car mat, 3½ pounds; sedan mats, 6 pounds.

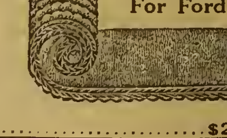
61 C 2279—Front mat for 1914 and older cars....**$ .80**
61 C 2280—Front mat for 1915 to 1922 models... **.80**
61 C 2365—Rear mat for all touring models...... **1.10**
61 C 2364—Complete mat for all sedans.......... **3.25**

Durable Carpet Floor Mats for All Ford Closed Cars

Neat Floor Carpets add greatly to the appearance of your car. The floor mats pictured are made of heavy, excellently constructed carpet material about ¼ inch thick. To make them last longer the edges are bound with a durable fabric material so there is a strong reenforcement all around the outside and also at the places where it is necessary for pedal openings. The color is a pleasing shade of gray that is serviceable and attractive. Shipping weight of sedan mats, 6 pounds; coupe mats, 3 pounds.

61 C 2363—Carpet for all coupes..............**$2.18**
61 C 2362—Carpet for all sedans.............. **3.65**

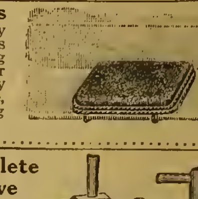
Cocoa Rugs For Fords



A thick heavy Cocoa Mat for the rear of touring cars. Much better looking than rubber mats. The entire edge is heavily bound. Will give long service. Measure 21x28 inches. Can be used in other cars where the size is suitable. Shipping weight, each, 2 pounds.

61 C 2940—Each..............................**$2.45**

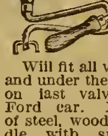
Running Board Mats



Made of long fiber closely woven together so it keeps its shape and will wear a long time. Saves cleaning floor mats all the time. Quickly attached by steel clips. Size, 8½x13 inches. Shipping weight, each, 2 pounds.

61 C 2281—Each..............................**78¢**

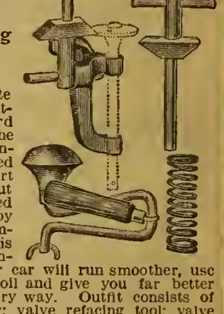
Handy Valve Grinder



Will fit all valves and under the dash on last valve of Ford car. Made of steel, wood handle with special swivel arrangement that works faster than the old style. Shipping weight, 8 ounces.

61C 2396..**25¢**

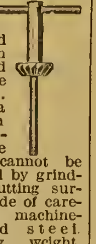
Complete Valve Grinding Set for Fords



A complete outfit for putting your Ford valves in the very best condition. Used by many expert repairmen, but may be used successfully by all Ford owners. Use this outfit occasionally and your car will run smoother, use less gas and oil and give you far better service in every way. Outfit consists of valve grinder; valve refacing tool; valve seat reamer and spring for holding valve while grinding. Shipping weight of outfit, 3½ pounds.

61 C 2682—Outfit complete,.....**85¢**

Valve Reseater



Used to ream out Ford valve seat. Makes a clean even surface which cannot be obtained by grinding. Cutting surface made of carefully machine-hardened steel. Shipping weight, 10 ounces.

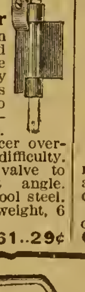
61C 2560..**54¢**

Valve Lifter

The ratchet holds it in position, requiring no holding while removing valve pin. Simply constructed and can be adjusted instantly with one hand. Enameled black. Length, 11 inches. Shipping weight, 1½ pounds.

61 C 2556.................**36¢**

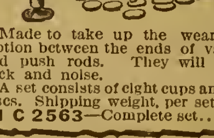
Valve Refacer



When Ford valves are badly pitted it is hard to get a perfect seat. This Refacer overcomes the difficulty. It trims valve to the right angle. Blade of tool steel. Shipping weight, 6 ounces.

61C 2561..**29¢**

Valve Adjusters

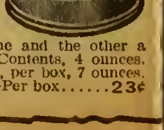


17¢ Made to take up the wear and lost motion between the ends of valve stems and push rods. They will silence the click and noise.

A set consists of eight cups and sufficient discs. Shipping weight, per set, 3 ounces.

61 C 2563—Complete set.......**17¢**

Riverside Valve Grinding Compound



Fast cutting. Packed in a double end box, one end containing a fine and the other a coarse grade. Contents, 4 ounces. Shipping weight, per box, 7 ounces.

61 C 9308—Per box......**23¢**

Riverside Tires save you money from start to finish. Pages 566 and 567

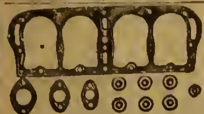
Dependable Replacement Parts for Fords

$1.15 Complete Pistons for Fords

Made of gray iron with carefully fitted step-cut piston rings. Tight fitting pistons will give you a smooth running engine, increased power, more mileage from gasoline and oil. They will hold compression and do away with piston slap noises. Oversize pistons are often the only successful remedy for motors that "pump" or "throw" oil.
Piston rings, pin and bushings included.

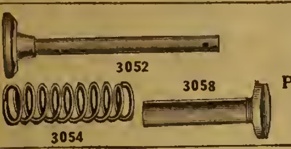
Article Number	Part	Name of Part	Each
61 C 2961	3020	Piston standard size....	$1.15
61 C 2962	3020C	Piston complete .0025 oversize. ..	1.15
61 C 2963	3020D	Piston complete .03125 oversize...........	1.15

Shipping weights: 61 C 2961, 2¾ pounds; 61 C 2962, 3 pounds; 61 C 2963, 3 pounds.



Engine Gaskets

Well made of copper and brass and lined with asbestos. For all Fords. Set consists of one cylinder head gasket; one cylinder head water outlet gasket; one cylinder head water inlet gasket; one carburetor flange gasket; six inlet and exhaust pipe gaskets. Set furnished complete.
61 C 2564—Complete set. Shipping weight, 14 ounces........36¢
61 C 2869—Head Gasket only. Shipping weight, 5 ounces........25¢

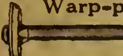


Valves, Valve Springs and Push Rods For All Ford Cars

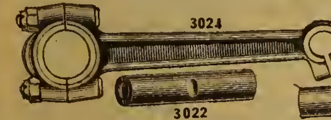
Article Number	Part	Name of Part	Each
61 C 2893	3052	Valve..................	9¢
61 C 2894	3052B	Valve, 1/64 oversize stem ..	10¢
61 C 2895	3054	Valve Spring...........	3¢
61 C 2896	3058	Push Rod..............	8¢

Shipping weights: 61 C 2893, 4 ounces; 61 C 2894, 4 ounces; 61 C 2895, 2 ounces; 61 C 2896, 2 ounces.

Warp-proof Valves for Fords



Ordinary valves for Fords very often warp, which causes the motor to miss, lose power and use more gas. These Warp-proof Valves are made of a specially treated metal which is guaranteed not to warp even though your motor becomes intensely hot. This means a very noticeable saving in gasoline and repair bills, as you will have better compression and more power without having to continually grind the valves. Shipping weight, each, 4½ ounces.
61 C 2838—Each........................15¢

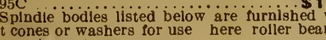


Best Quality Connecting Rod Piston Pin and Bushing

Full size, drop forged, accurately made and machined Connecting Rods with the finest grade babbit bearings. This is an excellent quality rod and should not be confused with the low priced ones now on the market. Shipping weights: 61 C 2883, 1¾ pounds; 61 C 2884, 4 ounces; 61 C 2882, 4 ounces.
61 C 2883—Connecting Rod, Part No. 3024. Each........................$1.05
61 C 2884—Pin Bushings, bronze; replace Part No. 3022½. Per pair..................17¢
61 C 2882—Piston Pin; replaces Part No. 3022. Each........................20¢

Complete Spindle Bodies

These complete Spindle Bodies are drop forged, accurately made, machined and hardened. Spindle bodies are very important parts and we have taken great care to offer only the best obtainable. Numbers 61 C 2843 and 61 C 2844 are complete with cones, washers and nuts. Shipping weights, each, 2¾ pounds.
61 C 2843—Right Spindle Body. Part No. 2694C $1.20
61 C 2844—Left Spindle Body. Part No. 2695C $1.20
Spindle bodies listed below are furnished without cones or washers for use here roller bearings are equipment.
61 C 2393—Right Spindle Body. Part No. 2694B. Each........................99¢
61 C 2394—Left Spindle Body. Part No. 2695B. Each........................99¢



Combination Bushing Reamers

Very fine quality tool steel Reamers, highly polished, accurately finished. Shipping weight, 10 ounces.
61 C 2449 — Spiral; for 2713-2714 Spindle Bushings $1.10
61 C 2416 — Straight; for 2713-2714 Spindle Bushings........................$1.10
61 C 2417—Spiral; for 3022½ Piston Pin Bushings $1.30
61 C 2418—Spiral; for 3314½ Transmission Triple Gear Bushings..................$1.30

68¢

Spindle Body Bushing Remover

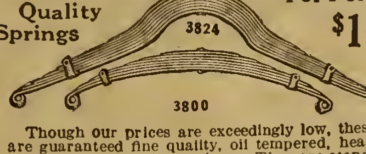
A specially designed tool for quickly removing all spindle body bushings. Simply push Remover through spindle body and open expanders by tightening screw device. Tapping the push-out bar with a hammer easily removes bushing. Made of best tool steel. Shipping weight, ½ pound.
61 C 2316..................68¢

$3.20

Kant-Break Front Spring Worth the Difference in Price

A new Spring, one that every Ford owner will appreciate as it prevents the front end of the car from excessive bouncing. Special curl arrangement or rebound feature on the first leaf — this prevents the spring from going down to the breaking point. Guaranteed not to break. Protects car, engine and front axle when going over rough roads and bad bumps. Shipping weight, each, 21 pounds.
461 C 2968—Each..............$3.20

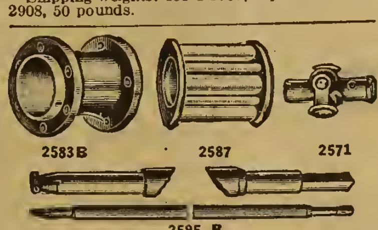
Fine Quality Springs For Fords $1.25



Though our prices are exceedingly low, these are guaranteed fine quality, oil tempered, heat-treated, perfect fitting springs. They are standard size and will give complete satisfaction.

Article Number	Part No.	Name of Part	Each
461 C 2907	3800	Front Spring	$1.25
461 C 2908	3824	Rear Spring	4.15

Shipping weights: 461 C 2907, 19 pounds; 461 C 2908, 50 pounds.

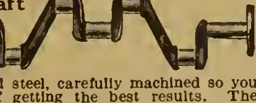


Drive Shaft, Universal Joint, Housing and Bearings

Article Number	Part No.	Name of Part	Each
61 C 2872	2587	Driveshaft Roller Bearing. A new improved combination roller and ball bearing that is guaranteed easier running than any similar bearing on the market. Has proven entirely successful on the hardest tests.....	$ .98
461 C 2836	2595B	Driveshaft............	1.65
61 C 2626	2571	Universal Joint Assembly.............	1.25
61 C 2871	2583B	D. S. Roller Bearing Housing. New style, drop forging........	1.48
61 C 2817	2528	Differential Thrust Plate bronze. Not illustrated..........	.20

Shipping weights: 61 C 2872, 2½ pounds; 461 C 2836, 13½ pounds; 61 C 2626, 2¾ pounds; 61 C 2871, 2¾ pounds; 61 C 2817, 6 ounces.

Crankshaft

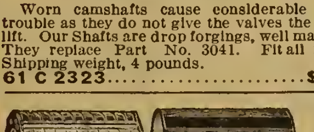


$7.25

Drop forged steel, carefully machined so you are certain of getting the best results. The bearing surfaces are machined to the thousandth part of an inch. This crankshaft replaces Ford Part No. 3030. Fits all models. Shipping weight, 22 pounds.
461 C 2324....................$7.25

Camshaft for Fords

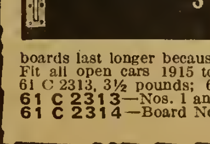
Worn camshafts cause considerable engine trouble as they do not give the valves the proper lift. Our Shafts are drop forgings, well machined. They replace Part No. 3041. Fit all models. Shipping weight, 4 pounds.
61 C 2323....................$2.35



Rear Axle Roller Bearings

Article Number	Part	Name of Part	Each
61C2793	2508 2509	Genuine Hyatt Axle Shaft Roller Bearing with right sleeve	$1.18
61C2794	2508 2509B	Genuine Hyatt Axle Shaft Roller Bearing with left sleeve	1.18

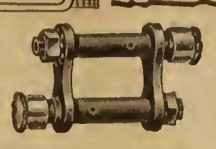
Shipping weights: 61 C 2793, 1¼ pounds; 61 C 2794, 1¼ pounds.



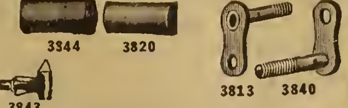
Front Floor Boards for Fords

New design, strongly made Front Boards that are much easier to remove and replace than the old kind. Openings reinforced with plates; black finish. These boards last longer because of their good design. Fit all open cars 1915 to 1922. Ship. weights: 61 C 2313, 3½ pounds; 61 C 2314, 5 pounds.
61 C 2313—Nos. 1 and 2. Per pair ....90¢
61 C 2314—Board No. 3 only.........65¢

Spring Shackles With Oilers 55¢



Perfect fitting Shackles, each carefully heat treated. Will wear well and give perfect satisfaction. Complete as illustrated.
Shipping weight, complete, 8 ounces.
61 C 2966 — Front Shackle. Complete shackle..................55¢
61 C 2967—Rear Shackle. Complete shackle..................55¢



Spring Parts for Fords

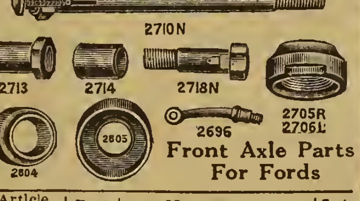
Article Number	Part	Name of Part	Each
61 C 2920	3820	Front Spring Perch Bushing..................	3¢
61 C 2922	3843	Rear Spring Perch.......	25¢
61 C 2923	3844	Rear Spring Perch Bushings, bronze..........	14¢
61 C 2910	3813	Front Spring Hanger.....	10¢
61 C 2912	3840	Rear Spring Hanger......	10¢

Shipping weights: 61 C 2920, 1 ounce; 61 C 2922, 12 ounces; 61 C 2923, 2 ounces; 61 C 2910, 4 ounces; 61 C 2912, 7 ounces.

Wheel Parts

Article Number	Part	Name of Part	Each
61 C 2854	2803C	Front Hub assembly, less flange..............	$1.18
61 C 2855	2815C	Rear Hub, tapered, less flange..............	.88
61 C 2970	2819	Hub Cap, nickel........	.10

Shipping weights: 61 C 2854, 4¾ pounds; 61 C 2855, 4¼ pounds, and 61 C 2970, 3 ounces.



Front Axle Parts For Fords

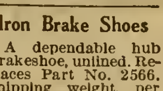
Article Number	Part	Name of Part	Each
61 C 2839	2704	Stationary Cone. Not illustrated	10¢
61 C 2840	2705R	Adjusting Cone, right thread..............	7¢
61 C 2841	2706L	Adjusting Cone, left thread..............	7¢
61 C 2842	2710N	Spindle Bolt, with oiler..	11¢
61 C 2845	2696	Spindle Arm, right or left up to 1921 only...	30¢
61 C 2848	2713	Spindle Body Bushing, bronze..............	7¢
61 C 2849	2714	Spindle Arm Bushing, bronze..............	3¢
61 C 2850	2718N	Spindle Connecting Rod Bolt, with oiler.......	10¢
61 C 2857	2804	Outer Race	7¢
61 C 2858	2805	Inner Race............	10¢

Shipping weights: 61 C 2839, 4 ounces; 61 C 2840, 2 ounces; 61 C 2841, 2 ounces; 61 C 2842, 7 ounces; 61 C 2845, 12 ounces; 61 C 2848, 2 ounces; 61 C 2849, 2 ounces; 61 C 2850, 3 ounces; 61 C 2857, 2 ounces; 61 C 2858, 5 ounces.

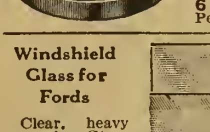
Rear Axle Shafts

Heat treated carbon steel, properly hardened, machined and ground. Will fit perfectly. At our price you can afford to have one on hand at all times for emergency. Shipping weight, each, 8 lbs.
461 C 2804—Each..................95¢

Radius Rods



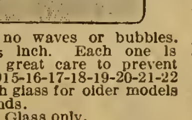
If your radius rod is bent even slightly, replace it before trouble occurs. Shipping weight, 7 pounds.
161 C 2851—For Fords up to 1920..$1.10
161 C 2380—For 1920-21-22 Fords.. 1.10



Iron Brake Shoes

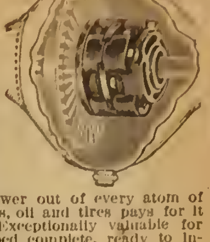
A dependable hub Brakeshoe, unlined. Replaces Part No. 2566. Shipping weight, per pair, 4¼ pounds.
61 C 2824—
Per pair.........38¢

Windshield Glass for Fords



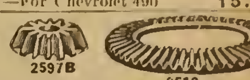
Clear, heavy auto plate Glass fits into regular Ford windshield frames. Clear white; no waves or bubbles. Standard thickness, 3/16 inch. Each one is packed separately with great care to prevent breakage. Fits all 1915-16-17-18-19-20-21-22 Fords. We do not furnish glass for older models Shipping weight, 16 pounds.
161 C 2934—Upper Glass only.
Size, 10 by 38 inches..................$2.28
161 C 2935—Lower Glass only.
Size, 12 by 38 inches 2.75

Gearless Differential For Fords and Chevrolet 490



Eliminates sideway slipping and tendency to skid. Gives a positive drive to both rear wheels—all the advantages of a solid axle in straight-away driving. Over soft or uneven ground, power is delivered to the wheel having traction. Pulls through bad spots where a car with the ordinary gear differential would be hopelessly stalled. Gives full power out of every atom of fuel. The saving in gas, oil and tires pays for it several times over. Exceptionally valuable for winter driving. Shipped complete, ready to install. Shipping weight, 20 pounds.
61 C 2463—For Fords.......... $15.45
61 C 2464—For Chevrolet 490 15.45

Differential Gears



When you put gears in your differential it pays to use the best. We could buy cheap gears but we know they would not give you the service that these will give. Our gears are carefully machined to fit perfectly so they work smoother and do not grind like the inferior kinds. They are so strongly and accurately made that we guarantee them for one year against breakage.

Article Number	Part	Name of Part	Each
61 C 2819	2518	Differential Drive Gear, 40 teeth............	$2.15
61 C 2822	2597B	Driveshaft Pinion, 11 teeth..............	.69

Shipping weights: 61 C 2819, 3½ pounds; 61 C 2822, 14 ounces.

Finest Quality Special Differential Gears

Guaranteed Two Years

The 2¾-to-1 ratio gears are particularly desirable for very fast driving or racing cars and will develop the maximum speed in proportion to the power of the motor. The 3-to-1 gears are for fast driving over country roads and are especially adapted for dirt track racing where pick-up is a big factor. The 4-to-1 gears are used where more power is needed and are suitable for sedans or Fords used for trucking and heavy loads, or where hills and sandy roads are encountered. The pinion gear is nickel gear steel. These gears are perfect fitting and interchangeable with the present Ford gears. Shipping weight of set, 4 pounds.
61 C 2957—2¾-to-1. Per set of 2... $6.45
61 C 2467—3 -to-1. Per set of 2... 6.45
61 C 2478—4 -to-1. Per set of 2... 6.45

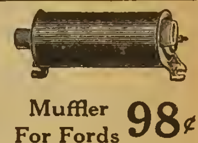
Power King Muffler $1.65

Mufflers clogged with carbon and dirt cause a back pressure which causes a waste of power. Many mufflers have small holes or pockets that become clogged; but this is impossible with the Power King, as it is of an entirely new design with a large cone that breaks up the force of the exhaust, producing quietness without the usual loss of power. It is excellently constructed with a heavy rolled steel plate, steel and cast iron end. Shipping weight, 6 pounds.
61 C 2325........................$1.65

Fan for Fords

68¢

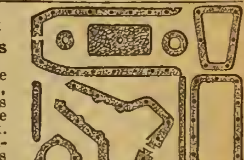
Replaces Ford Part No. 3960. Complete with pulley assembly for Fords 1909-1920. Shipping weight, 1½ pounds.
61 C 2932..68¢



Muffler For Fords 98¢

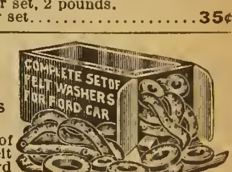
Similar to the Ford muffler and so designed that it may be attached in exactly the same position as the old one. Shipping weight, 4 lbs.
61 C 2282.....98¢

Cork Gasket Set for Fords



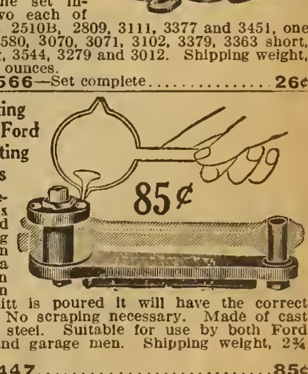
This complete set, as illustrated, contains 12 pieces of high grade compressed cork. Most all larger engine manufacturers use cork gaskets. You should keep a set on hand at all times. A gasket leak around your engine is dangerous, expensive and dirty. Shipping weight, per set, 2 pounds.
61 C 2965—Per set..................35¢

Felt Washer and Gasket Set for Fords



Complete set of Washers and Felt Gaskets for Ford cars. The set includes two each of Numbers 2510B, 2809, 3111, 3377 and 3451, one each of 2580, 3070, 3071, 3102, 3379, 3363 short, 3363 long, 3544, 3279 and 3012. Shipping weight, per set, 6 ounces.
61 C 2566—Set complete..............26¢

Babbitting Jig for Ford Connecting Rods



85¢

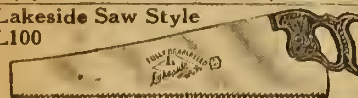
This device holds the Ford connecting rod in such a position that when the babbitt is poured it will have the correct centers. No scraping necessary. Made of cast iron and steel. Suitable for use by both Ford owners and garage men. Shipping weight, 2¾ pounds.
61 C 2447........................85¢

Lakeside Saw Style L7

A good saw for all-around outside work. Patent taper ground and tempered. Made from refined crucible steel. Straight thin back. Hand hammered. Hand-filed and set. Applewood handle with brass screws. State size and point wanted. Shipping weights, 3 to 4½ pounds.

Size	22-In. Panel	24-In. Hand	26-In. Hand	26-In. Rip	28-In. Rip
Points to In.	10,12	8, 10	7,8,9,10	5½, 6	5,5½
84 C 20	$1.50	$1.65	$1.75	$1.75	$1.95

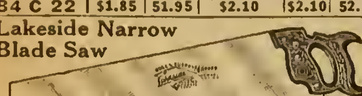
Lakeside Saw Style L100



Extra refined spring steel. Patent ground and tempered. Thin back. Hand-hammered. Hand-filed and set. Skew back. Carved applewood handle. Brass screws. For fast, smooth cutting on interior finish. State size and point wanted. Shipping weights, 3½ to 4 pounds.

Size	22-In. Panel	24-In. Hand	26-In. Hand	26-In. Rip	28-In. Rip
Points to In.	9,10,12	8,9,10	7,8,9,10,12	5½,6	5, 5½
84 C 22	$1.85	$1.95	$2.10	$2.10	$2.35

Lakeside Narrow Blade Saw



Narrow steel blade. 6 inches wide at the butt, 1½ inches wide at the point. Concave taper ground. Carved beech handle with brass screws. Especially adapted for smooth cutting and where fine work and close joints are required. 26 inch blade, 8, 9, 10, 12 points. State point wanted. Shipping weight, 3 pounds.

84 C 30 .... $2.75

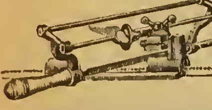
Standard Saw

Skew back. Polished. Good saw steel. For general use. State size and point wanted.

Size	Points to In.	Weight	84 C 40
18-Inch Panel	10	3 pounds	$ .90
26-Inch Hand	9	4 pounds	1.10
26-Inch Rip	6	3¼ pounds	1.10

Saw Vises and Filers

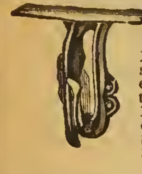
Saw Filing Guide

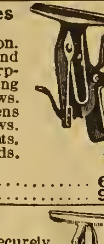


Adjustable to file at any angle, pitch, or depth. Index is so fastened to bar that when saw is turned in vise same angle is obtained for filing opposite side. Guide and file only. Vise not included. Ship. weight, 2¼ lbs.

84 C 356 .... $1.85

Saw Vises

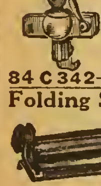


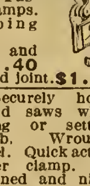


Japanned iron. For holding band saws while sharpening or setting teeth. 9½-inch jaws. Iron lever tightens or releases jaws. Shipping weights, 3½ and 5½ pounds.

84 C 340—Screws to bench .... 60¢
84 C 341—Clamps to bench .... 95¢

Saw Vises

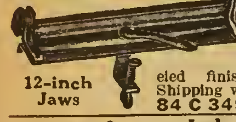




For holding saws securely while sharpening or setting teeth. Vise may be pitched and held at any angle. Fasten to bench with clamps. 9-inch jaws. Shipping weight, 9 pounds.

84 C 343 — Ball and socket adjustment . $1.40
84 C 342—With adjustable hinged joint. $1.25

Folding Saw Vise

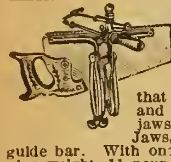


12-inch Jaws

Securely holds hand saws while filing or setting teeth. Wrought steel. Quick acting lever clamp. Japanned and nickeled finish. Rubber lined. Shipping weight, 3 pounds.

84 C 349 .... 98¢

Lakeside Saw Filer



Combined saw clamp and filing guide. Makes accurate filing easy. Clamps hold saw firmly at any angle. Guide holds file so that all teeth are filed uniformly and accurately. Rubber faced jaws prevent noise and vibration. Jaws, 10½ inches; 16-inch steel guide bar. With one file and directions. Shipping weight, 11 pounds.

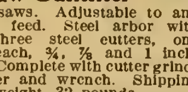
484 C 354 .... $2.95

Saw File

Side File. For regulating and evening up circular saw teeth after setting. Size, 7 by 4 inches. Shipping weight, 2 pounds.

84 C 268—With one file. .85¢
84 C 269—Extra files; 4x1⅜x⅜ inches. Shipping weight, each, 12 ounces. Each .... 30¢

Combination Saw Tools



Jointer, raker tooth, and set gauge. File not included. For cross-cut saws. With directions. Shipping weight, 1½ pounds.

84 C 272 ..... 37¢

Mixter's Saw Gummer

For large crosscut saws. Adjustable to any angle. Automatic self feed. Steel arbor with three steel cutters, one each, ¾, ⅞ and 1 inch. Complete with cutter grinder and wrench. Shipping weight, 32 pounds.

84 C 290 ... $24.95

84 C 291—Extra cutters for above. Sizes ½ and ⅝ have 5/16-inch hole. Larger sizes have ½-inch hole; standard for our regular arbor. Shipping weights, 2 to 7 ounces. State size.

Size	½-in.	⅝-in.	¾-in.	⅞-in.
Each	50¢	50¢	60¢	70¢
Size	1 in.	1⅛-in.	1¼-in.	1½-in.
Each	80¢	90¢	$1.00	$1.25

Lakeside Hand Saws

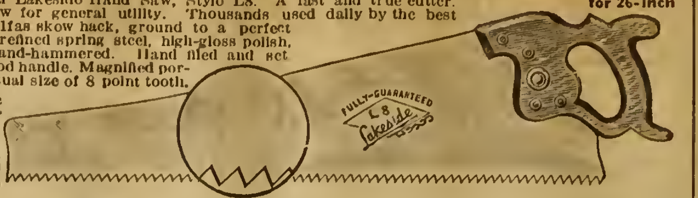
TRADE MARK

Made of Extra Quality Spring Steel

$1.90 for 26-Inch

The popular Lakeside Hand Saw, Style L8. A fast and true cutter. The ideal saw for general utility. Thousands used daily by the best carpenters. Has skew back, ground to a perfect taper. Extra refined spring steel, high-gloss polish, thin back, hand-hammered. Hand filed and set. Fine applewood handle. Magnified portion shows actual size of 8 point tooth.

We guarantee this saw to be satisfactory in every way. State size, length and point wanted.



84 C 21

Size	18-Inch Panel	20-Inch Panel	22-Inch Panel	24-Inch Panel
Points to Inch	10, 12	10, 12	9, 11	8, 10
Ship. weight	3 lbs.	3½ lbs.	3¾ lbs.	4 lbs.
Each	$1.60	$1.65	$1.70	$1.80

Size	26-Inch Hand	26-Inch Rip	28-Inch Rip
Points to Inch	6, 7, 8, 9, 10, 12	5, 5½, 6	5, 5½, 6
Ship. weight	4 lbs.	4 lbs.	4 lbs.
Each	$1.90	$1.90	$2.15

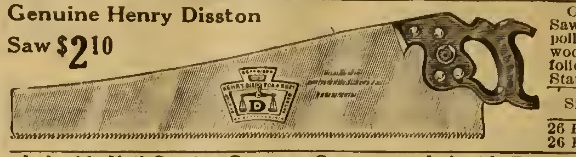
"Lakeside" Beats Them All

"The Lakeside Saw is one of the best I ever had. I have used six other standard makes but the Lakeside beats them all."

C. J. Gaskill,
Madison, Indiana.

Printed with Mr. Gaskill's permission.

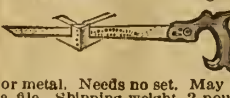
Genuine Henry Disston Saw $2.10



Genuine Henry Disston Saw, D8, with skew back, full polished steel blade, applewood handle. We carry the following sizes and points only. State size and point wanted.

Size	Points to In.	Shipping Weight	84 C 38
26 Hand	8, 10	2 pounds	$2.10
26 Rip	5½	2 pounds	2.10

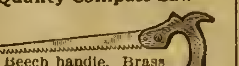
Lakeside Nail Cutting Compass Saw



Extra quality 12-inch blade, hollow ground. Will saw wood or metal. Needs no set. May be sharpened with a file. Shipping weight, 2 pounds.

84 C 72 .... 75¢

Lakeside Extra Quality Compass Saw



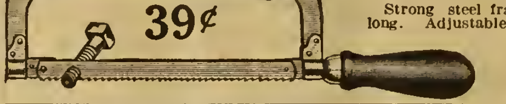
Compass saw, steel blade. Thin back, hand hammered, filed and set. Beech handle. Brass screws. State size wanted. Shipping weight, 3 pounds.

Length	12 inches	14 inches
84 C 71	50¢	60¢

Hack and Coping Saws and Blades

Nickel Plated Hack Saw

Handle Adjustment

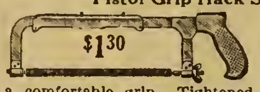


39¢

Strong steel frame. Holds blades 8 to 12 inches long. Adjustable to face at four different angles. Handle adjustment. As firm as a solid frame when blade is in position. Complete, with one 8-inch blade. Shipping weight, 1 pound.

84 C 116 .... 39¢

Pistol Grip Hack Saw

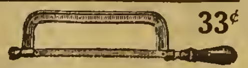


$1.30

Heavy, adjustable nickel-plated steel frame. Handle shaped to give a comfortable grip. Tightened by wing nut. Holds blades 8 to 12 inches. Complete, with one 8 inch blade. Shipping weight, 1¾ pounds.

84 C 109 .... $1.30

Iron Frame Hack Saw



33¢

Japanned iron frame, wood handle. The blade may be faced four ways. A well made saw from which you can expect excellent service. Complete, with one 8-inch blade. Shipping weight, 12 ounces.

84 C 112 .... 33¢

Genuine Star Hack Saw Blades

Made of hard steel. Every blade perfect and will give satisfaction. Regular teeth, 16 to the inch. State size. Shipping weight, per dozen, 4 to 12 ounces.

Length, inches	8	9	10	12
84 C 122 Ea.	5¢	6¢	7¢	8¢
Per dozen	45¢	50¢	55¢	65¢

Heavy Power Saw Blades

Extra heavy steel. Length, 12 inches, width ⅝ inch. Shipping weight, per dozen, 18 ounces.

84 C 123—Each ...... 10¢
Per dozen .... 96¢

Flexible Hack Saw Blades

Manufactured by a special process, whereby the teeth only are hardened, the back remaining flexible and tough. The blade will not stretch, snap or break. Ship. wt., per dozen, 5 to 12 oz.

84 C 120 Regular teeth, 16 to the inch. For sawing iron or steel. State size.

Length, inches	8	9	10	12
Each	4¢	5¢	6¢	7¢
Per dozen	39¢	44¢	49¢	59¢

84 C 121 Fine teeth, 24 to the inch, for sawing brass or tubing. State size.

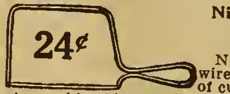
Length, inches	8	9	10	12
Each	4¢	5¢	6¢	7¢
Per dozen	39¢	44¢	49¢	59¢

Goodell-Pratt Hack Saw Blades

Made from finest rolled sheet steel. Sharpened and set by special process, making these saws rapid cutters. Regular teeth. (16 to inch.) For sawing iron and steel. State size. Shipping weights, per dozen, 5 to 12 ounces.

Length, inches	8	9	10	12
84 C 124 Ea.	5¢	6¢	7¢	8¢
Per dozen	45¢	50¢	55¢	65¢

Nickeled Coping Saw With 13 Blades

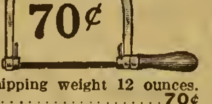


24¢

Nickel-plated steel wire frame. Depth of cut, 4 inches. Complete with thirteen 6-inch blades. Shipping weight, complete outfit, 8 ounces.

84 C 137—Complete outfit .... 24¢
84 C 138—Extra blades. Shipping weight, per dozen, 3 ounces. Per dozen .... 14¢

Adjustable Coping Saw



70¢

Handle and blade revolve, or may be held perfectly rigid. Hardwood handle with 1 blade 6 by 3/32 inch. Depth, 4¼ inches. Shipping weight 12 ounces.

84 C 130 .... 70¢
84 C 132—Extra blades, shipping weight, per dozen, 3 ounces. Per dozen .... 44¢

Bracket Saw Outfit

$1.25

Consists of 1 bracket saw, 12 blades, 1 awl, 3 sheets of patterns and 1 sheet of carbon tracing paper, in neat pasteboard box. Saw frame 5 inches wide, 12 inches deep. Shipping weight, 1½ pounds.

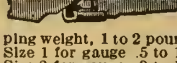
84 C 140—Complete outfit $1.25

Scroll or Bracket Saw Blades

1 2 3 4 5 6 Good quality 5 inch blades. Sizes 1 to 10. Packages of 1 dozen. State size. Shipping weight, per dozen, 2 oz. 7 8 9 10

84 C 142—Per dozen .... 14¢

Saw Swages for Circular Saws

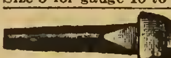


Forged, crucible steel. For spreading the points of saw teeth. State size. Shipping weight, 1 to 2 pounds. 84 C 280

Size 1 for gauge 5 to 10 .... $3.95
Size 2 for gauge 9 to 12 .... 3.35
Size 3 for gauge 10 to 14 .... 2.85

Saw Sets

Whiting Saw Set



For setting circular one and two man saws. Used with hammer. Forged steel, tempered and polished. Length, 3½ inches. Shipping weight, 5 ounces.

84 C 333 .... 60¢

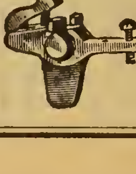
Morrill's Pattern Saw Set, for Large Saws

84 C 326 — Size 3, for single-tooth cross-cut and circular saws from 20 to 14 gauge. Shipping weight, 1½ pounds .... 90¢

84 C 327—Size 4, for champion or M-tooth crosscut saws, 22 to 14 gauge. Shipping weight, 1½ pounds .... 95¢

84 C 328—Size 5. Length, 15 inches. For circular and other saws, 14 to 6 gauge. Shipping weight, 3½ pounds $1.95

Aiken's Pattern Saw Set



Cast steel hammer saw set. Teeth are in plain view while being set. Set screw for gauging angle of set. Length, 3¾ inches. Shipping weight, 12 ounces.

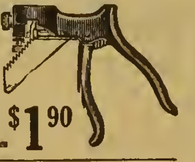
84 C 330 ...... $1.05

Morrill's Pattern Saw Set

Morrill's Pattern Saw Set. Size 1. For hand saws. Full polished. Length, 6¾ inches. Shipping weight, 14 ounces.

84 C 322 .... 42¢

Stanley Saw Set



Convenient pistol grip. Adjustable, graduated anvil with lock nut. Tempered steel plunger and anvil. Shipping weight, 1½ pounds.

84 C 334 .... $1.90 — $1.90

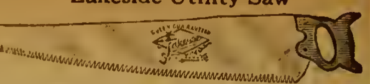
Lakeside Quality Saw Set $1.25

A finely finished full nickel-plated tool with eccentric anvil and indicator. The indicator gives the number of teeth to the inch, which enables you to always hold a uniform set in the saw. The lever is placed below and operated by the fingers, only, doing away with the motion of the entire hand. The revolving anvil covers the required bevel and length of all saw teeth, ranging from 4 to 16 points to the inch. Hardened anvil and plunger. Length, 7 inches. Shipping weight, 1 pound.

84 C 310 .... $1.25

The Index in This Book Was Prepared for Your Convenience. Everything You Need is Listed There. Use It.

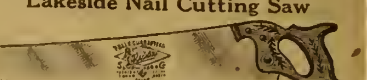
Lakeside Utility Saw



For heavy work such as bridge timbers, concrete framing and false work. Blade is of fine crucible steel; 18 gauge, with bevel filed teeth. Light, malleable iron handle, well riveted. State size.

Size	30 inches	36 inches
Shipping weight	4½ pounds	5½ pounds
484 C 37	$2.65	$2.75

Lakeside Nail Cutting Saw



Will saw wood, nails, sheet metal and gas pipe. Saves your hand saws. Polished steel blade. Applewood handle, brass screws. May be filed, but does not require setting as it is taper concave ground. A most desirable addition to any carpenter's kit. Length of blade, 18 inches. Shipping weight, 3 pounds.

84 C 34 .... $1.75

Lakeside Handy Saw Assortment

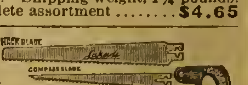
$4.65

A set of Lakeside hand saws, comprising one detachable handle and four polished steel blades. Blades are held rigidly in place by a lever on top of the handle where it cannot interfere with the work. Complete assortment in Khaki case. Shipping weight, 1¾ pounds.

Set consists of: Handle and one 18-inch panel saw, one 18-inch rip saw, one 12-inch compass saw, one 10-inch keyhole saw.

84 C 47—Complete assortment $4.65

Lakeside Set of 3 Saws

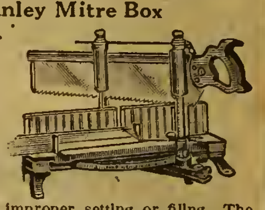


Consists of a Metal Cutting Saw, length 18 inches, for cutting lead pipe, or nails. One compass saw, length 14 inches, one keyhole saw, length, 10 inches, and one adjustable handle. A very useful set. Ship. wt., complete set, 3½ pounds.

84 C 60—Complete set $1.90

Mitre Boxes

Stanley Mitre Box



Stanley No. 358. The entire frame is one solid casting of great strength. The saw-guide uprights are securely clamped and may be adjusted to counteract a saw which does not run true, due to improper setting or filing. The edge of the base is graduated in degrees, and the swivel arm may be set and fastened at any degree. Stock guides hold all kinds of regular or irregular material.

Complete with 28 by 5 Mitre Box saw. Shipping weight, 35 pounds.

484 C 370 .... $19.25

Extra Heavy Back Saw Only, for above Mitre box. Applewood handle with brass screws. Polished steel blade. Hand filed and set. 28 inches long. Width, 5 inches. Ship. wt., 7¼ lbs.

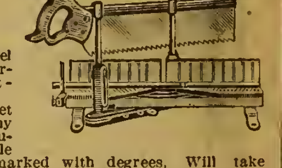
84 C 54 .... $3.95

Lakeside Back Saw

Best for accurate work. Spring steel, hand-hammered saw. Stiff steel back. Hand filed and set. State size.

Size	12 inches	16 inches
Shipping weight	1¼ pounds	1⅞ pounds
84 C 50	$1.90	$2.40

Goodell-Pratt Steel Mitre Box



Wrought steel with angular-serrated, bottom plate. The arms set and lock at any angle. Graduated arc scale in front is marked with degrees. Will take work 10½ inches wide at right angles and 7¼ inches at mitre. Length of bed, 21 inches. With high-grade back saw.

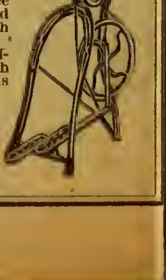
Number	With Saw	Weight	Each
484 C 366	26 by 4 inches	26 pounds	$12.65
484 C 367	28 by 5 inches	30 pounds	14.50
484 C 368	30 by 5 inches	35 pounds	14.55
484 C 369	30 by 6 inches	35 pounds	14.60

Popular Perfection Mitre Box

One of the best inexpensive Mitre Boxes made. Enables you to correctly saw boards or moulding at any angle desired. Made of hardwood, with detachable metal guide arm. Folds conveniently for tool chest. May be set and rigidly held at any angle. Any saw may be used. Will mitre any board up to 5½ inches. Price is for mitre box only. (Saw not included.) Shipping weight, 8 pounds.

84 C 374 .... $2.85

Millers Falls Star Scroll Saw Outfit



Heavy drive wheel. Two balance wheels (one with emery rim) to give steadiness to the motion. Spindle holds buffing wheels, drills, etc. Arms have a free and easy action and are adjusted to stay parallel. Equipped with patent dust blower.

Japanned frame and nickel-plated table. Complete, with 12 saw blades, 1 sheet of designs and 3 drill points. Shipping weight, complete outfit, taken apart and boxed flat to save freight, about 60 pounds.

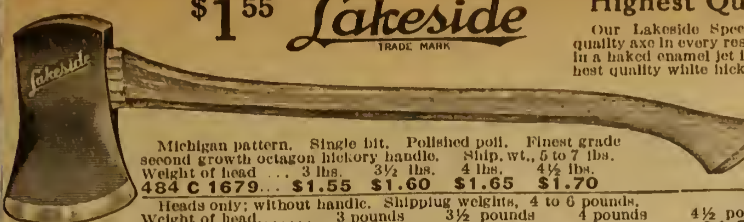
184 C 172—
Complete outfit $13.95

Squares and Levels are listed on Page 593

$1.55 Lakeside

Highest Quality Razor Edge Axes.—Michigan Pattern $1.95

Our Lakeside Special Axe is a tool which will satisfy the most critical woodsman. A fine quality axe in every respect. Made of forged steel, accurately shaped; carefully tempered, and finished in a baked enamel jet black finish. Rust proof. Flint edge, hand honed. Accurately fitted with selected best quality white hickory octagon shaped handles. Bit, 4½ inches wide.



Michigan pattern. Single bit. Polished poll. Finest grade second growth octagon hickory handle. Ship. wt., 5 to 7 lbs.

Weight of head	3 lbs.	3½ lbs.	4 lbs.	4½ lbs.
484 C 1679	$1.55	$1.60	$1.65	$1.70

Heads only; without handle. Shipping weights, 4 to 6 pounds.

Weight of head	3 pounds	3½ pounds	4 pounds	4½ pounds
84 C 1680	$1.10	$1.15	$1.20	$1.25

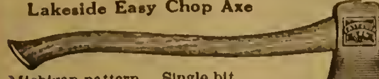
Michigan Pattern. Double bit with finest grade second growth hickory octagon handle. Shipping weights, 6 to 7 pounds.

Weight, head	3½ pounds	4 pounds	4½ pounds
484 C 1681	$1.95	$2.05	$2.15

Heads only, without handle. Shipping weight, 5 to 6 pounds.

Weight, head	3½ pounds	4 pounds	4½ pounds
84 C 1682	$1.50	$1.60	$1.70

Lakeside Easy Chop Axe



Michigan pattern. Single bit. Refined steel, carefully tempered. Polished and bronzed finish. Fitted with extra quality oval white hickory handle. Width of bit, about 5 inches. Shipping weight, 7 pounds.

Weight, of head, pounds	3	3½	4	4½
484 C 1686	$1.20	$1.25	$1.30	$1.35

Head only. Same as above except without handle.

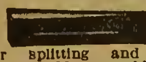
Weight of head, pounds	3	3½	4	4½
84 C 1687	95¢	$1.00	$1.05	$1.10

Hunters' Standard Axe

Width of blade, about 3 inches. With nail pulling slot. Fitted with 13-inch well formed attractively stained hickory handle. Complete with neat leather case for blade. Shipping weight, 2½ pounds.

84 C 1667—With case................$1.15
84 C 1672—Without case.............. .95

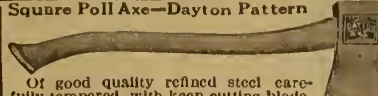
Steel Wood Wedge



For splitting and wedging logs. Narrow bit. Oil finish. Average length, 9 inches. State weight. Shipping weight, 6 pounds.

Weight, pounds	4	4½	5
84 C 1732	30¢	35¢	40¢

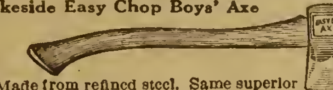
Square Poll Axe—Dayton Pattern



Of good quality refined steel carefully tempered, with keen cutting blade. Natural black finish. Oval Handle of good white hickory. Width of bit, about 4 inches. A good ordinary axe for farm use. Shipping weights, 6 to 7 pounds.

Weight of head, pounds	3½	4	4½
484 C 1697—With Handles	$1.25	$1.30	$1.35
84 C 1699—Without handles	1.00	1.05	1.10

Lakeside Easy Chop Boys' Axe

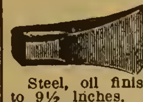


Made from refined steel. Same superior quality and workmanship as found in our full size axes. Polished and bronzed finish. Fitted with 26-inch oval hickory handles. Width of bit, 4 inches. Weight, with handle, 3⅛ pounds. Shipping weight, 4 pounds.

84 C 1710..........................98¢

84 C 1762—Boys' light oval hickory axe handle. Good quality. Length, about 26 inches. Shipping weight, 1 pound...................23¢

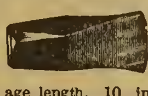
Oregon Pattern Wedge



Steel, oil finish. Length, 8 to 9½ inches. State weight. Shipping weights, 5 to 10 pounds.

Weight, pounds	4	5	6	7	8
84 C 1734	40¢	50¢	60¢	70¢	80¢

Oregon Pattern Maul

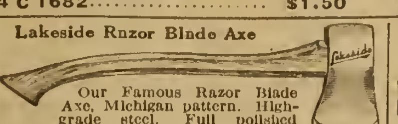


Steel, oil finish. Average length, 10 inches. State weight. Shipping weights, 9 to 14 pounds.

Weight, pounds	8	10	12
484 C 1736	$1.00	$1.25	$1.45

484 C 1737— Maul handle for above. Shipping weight, 2 pounds...................30¢

Lakeside Razor Blade Axe



Our Famous Razor Blade Axe, Michigan pattern. High-grade steel. Full polished etched. Has a thin, keen cutting edge. Fitted with excellent, octagon, second growth hickory handles. Width of bit, 5 inches. Shipping weight, 7 pounds.

Weight of head	3½ lbs.	4 lbs.	4½ lbs.
484 C 1704	$1.65	$1.75	$1.85

Axe head only, without handle. Shipping weight, 4½ to 6 pounds.

Weight of head	3½ lbs.	4 lbs.	4½ lbs.
84 C 1705	$1.20	$1.30	$1.40

Lakeside Razor Blade Axe
Double Bit With Handle

Fitted with high-grade second growth octagon handle. Michigan Pattern. State size. Width of bit, about 5 inches. Shipping weight, 7 pounds.

Weight of head	4 pounds	4½ pounds
484 C 1707	$2.25	$2.35

Axe head only. Same as above. Shipping weight, 6 pounds.

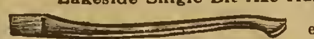
Weight of head	4 pounds	4½ pounds
84 C 1708	$1.80	$1.90

Oval Hickory Axe Handle

A good, selected handle. Turned Number One Hickory. For any single bit axe head. Length, 36 inches. Shipping weight, 1⅜ pounds.

484 C 1752..........................25¢

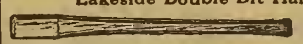
Lakeside Single Bit Axe Handle



Made of extra select second growth hickory, shaved, octagon shape. Length, 36 inches. Shipping weight, 1½ pounds.

484 C 1750..........................40¢

Lakeside Double Bit Handle



Made of extra select second growth hickory, shaved octagon shape. Length, 36 inches. Shipping weight, 2 pounds.

484 C 1756..........................40¢

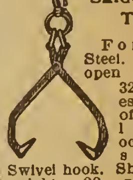
Cant Hook

For handling logs. With 4½-foot heavy, hard maple handle. Shipping weight, 7 pounds.

184 8 245. $1.50

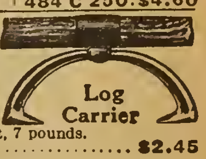
184 C 246— Extra handle, selected maple. Length 4½ feet. Shipping weight, 4 pounds. .....55¢

Skidding Tongs



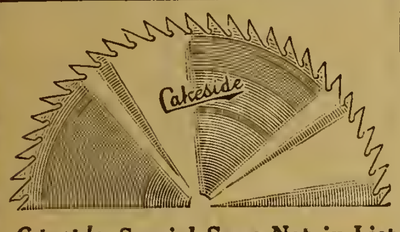
Forged Steel. Will open about 32 inches. Made of 1⅛-inch octagon steel. Swivel hook. Shipping weight, 20 pounds.

484 C 250. $4.60



Log carrier. Capacity, 3 inches to 16 inches. Hooks are highest quality, duck bill pattern, made of forged steel. Handle of hard maple. Length, 42 inches with swivel. Shipping weight, 7 pounds.

184 C 252.......................$2.45



Lakeside Special Saws Not in List

Saws listed can be furnished with any ordinary size hole at no extra charge. We carry in stock for immediate shipment saws in standard sizes, as listed but will supply special gauges as promptly as possible. It usually takes from 10 to 30 days to make up special saws at the factory. Prices on saws larger than 36 inches and on inserted tooth saws given on request.

When Ordering Special Saws

Be sure to advise us of the diameter, hand, gauge at center and run, number of teeth, kind of lumber to be cut, speed of saw while hurled in log (not while running out of cut) horse power of engine, greatest feed, whether mandrel runs cool or warm, and templet showing size of holes. All saws come filed and set, ready for use.

Table of Speeds

Always run saw at proper speed. Too fast or too slow is equally bad.

Saw Diameter	Speed	Saw Dia. In.	Speed	Saw Dia. In.	Speed
18 in.	2,000	26	1,384	34	1,050
20 in.	1,800	28	1,285	36	1,000
22 in.	1,636	30	1,200	..	....
24 in.	1,500	32	1,120	..	....

Lakeside High Speed Circular Saws

Best grade crucible Saw steel, correctly tempered, smithed, blocked set and hammered. These saws are the product of expert sawyers of many years' experience enabling them to correctly build each saw to give you the service to which you are entitled. Always run the saw at proper speed, too fast or too slow is equally bad. See the speed table at left.

Prices are for saw, set and sharpened ready for use. Be sure to give size of hole and style of saw wanted

84 C 260—Circular Crosscut Saw.
84 C 261—Circular Rip Saw.

Diameter	Thickness Gauge	Size Hole, Inches	Approx. Shipping Weight	Price Each
4 in.	19	¾	3 ounces	$ .85
6 in.	18	¾	7 ounces	.95
8 in.	18	⅞	12 ounces	1.75
10 in.	16	1	1½ pounds	2.45
12 in.	15	1	3¾ pounds	3.00
14 in.	14	1⅛	4½ pounds	3.70

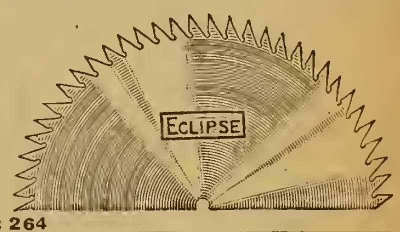
Larger Sizes

184 C 260—Circular Crosscut Saw.
184 C 261—Circular Rip Saw.

Diameter	Thickness Gauge	Size Hole, Inches	Approx. Shipping Weight	Price Each
16 in.	14	1⅛	6¾ pounds	$4.50
18 in.	13	1¼	6⅞ pounds	5.60
20 in.	13	1 5/16	10¼ pounds	6.50
22 in.	12	1 5/16	12¾ pounds	7.55
24 in.	10	1⅜	16¼ pounds	8.80
26 in.	10	1⅜	20 pounds	10.20
28 in.	10	1⅜	23½ pounds	12.50
30 in.	10	1½	28 pounds	13.70
32 in.	9	1⅝	33 pounds	15.80
36 in.	9	1⅝	51 pounds	19.95

Eclipse Cordwood Saws

Made expressly for use on Cordwood or Pole Sawing Machines and on our Saw Mandrels. They are hammered to run properly at the usual speeds of these machines and are precisely hand filed and set, ready for use. The improved special shaped teeth with large gullet, make these saws cut fast and hold their edges remarkably. They are tempered to stand the severe outdoor weather service to which they are subjected, and will be found to be thoroughly reliable in every way. Made only in sizes listed below, for crosscut sawing. State size wanted.



184 C 264

Diameter	Thickness Gauge	Shipping Weight	Size Hole in Center 1¼	1 5/16	1⅜	1½
20 inches	13	9¼ pounds	$2.30	$2.31	$2.32	$2.33
22 inches	12	12 pounds	2.70	2.71	2.72	2.73
24 inches	11	16 pounds	3.15	3.16	3.17	3.18
26 inches	11	20 pounds	3.85	3.85	3.86	3.87
28 inches	10	25 pounds	4.45	4.46	4.47	4.48
30 inches	10	30 pounds	4.95	4.96	4.97	4.98
32 inches	9	35 pounds	5.70	5.71	5.72	5.73
36 inches	9	49 pounds	7.40	7.41	7.42	7.43

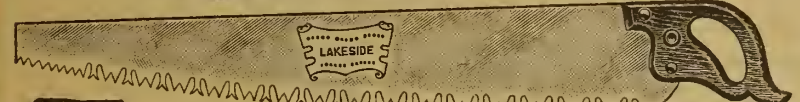
Circular Saw Mandrels

Of the latest and most improved pattern, pulley on end or in center. Be sure to specify which style.

Heavy iron mountings. Steel shaft. Free running babbitted Bearings.

Size	Diam. Pulley	Approx. Face Pulley	Length Shaft	Diam. Shaft	Size Hole in Saw	Shipping Weight	184 C 285 Pulley on End	184 C 286 Pulley on Center
0	2 in.	3 in.	16½ in.	⅞ in.	¾ in.	14 lbs.	$3.20	....
1	2½ in.	3½ in.	16½ in.	1 1/16 in.	1 in.	18½ lbs.	3.50	$3.50
2	3 in.	3¾ in.	19 in.	1 3/16 in.	1⅛ in.	21 lbs.	4.40	4.50
3	3½ in.	4⅜ in.	21½ in.	1 5/16 in.	1¼ in.	31 lbs.	5.45	5.45
4	4⅜ in.	5 in.	24 in.	1 7/16 in.	1 5/16 in.	38½ lbs.	7.10	7.10
5	4¾ in.	5½ in.	26 in.	1 7/16 in.	1 5/16 in.	39 lbs.	7.70	....
6	5 in.	6 in.	28 in.	1 7/16 in.	1⅜ in.	45 lbs.	8.35	8.40
7	5 in.	6 in.	30½ in.	1 7/16 in.	1⅜ in.	50 lbs.	9.00	....
8	6 in.	6¾ in.	32½ in.	1 9/16 in.	1½ in.	60 lbs.	10.60	....
9	7 in.	7¾ in.	37 in.	1 11/16 in.	1½ in.	70 lbs.	13.50	....
10	8 in.	8 in.	41½ in.	1 13/16 in.	1⅝ in.	96 lbs.	16.95	....

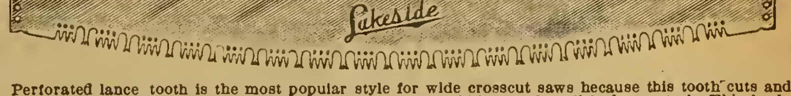
Lakeside Champion One-Man Saw



Lakeside One-Man Saw, with Champion Tooth, taper ground, two gauges thinner on back than on tooth edge. Polished steel. Prices include one supplementary handle.

Length	3 feet	3½ feet	4 feet	4½ feet
Shipping weight	3½ pounds	4¼ pounds	5 pounds	5 pounds
184 C 211	$1.65	$1.95	$2.25	$2.50

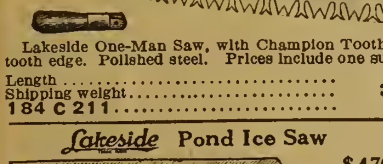
Lakeside Perforated Lance Tooth Saw



Perforated lance tooth is the most popular style for wide crosscut saws because this tooth cuts and clears easily in any kind of wood. Lakeside brand, made of high-grade polished saw steel. Thin back-ground to a true taper, four gauges thinner on the back than on the cutting edge. Cuts rapidly and easily and will not bind in the timber. Without handles. Shipping weight, 6 to 8½ pounds.

Length	5 feet	5½ feet	6 feet	6½ feet
184 C 208	$3.30	$3.70	$3.95	$4.35

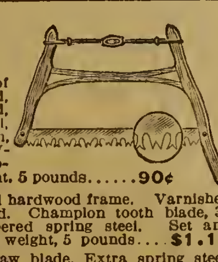
Lakeside Pond Ice Saw $4.70



Extra quality polished steel blade. Complete with tiller handle, as illustrated. Width tapers from 7 inches to 5 inches at the point. Length, 5 feet. Shipping weight, 16 pounds.

184 C 221 .... $4.70

Standard Buck Saw

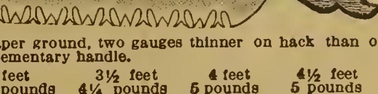


84 C 152—Frame of selected hardwood, painted red. Polished, wide blade of extra steel, finely tempered. Length, 30 inches. Standard V-tooth, set and sharpened. Shipping weight, 5 pounds......90¢

84 C 146—Selected hardwood frame. Varnished finish. Improved rod. Champion tooth blade, 30 inches long, of tempered spring steel. Set and sharpened. Shipping weight, 5 pounds....$1.15

84 C 158—Buck saw blade. Extra spring steel, patent ground and tempered, polished. Length, 30 inches. Set and sharpened. Champion tooth. Fast, easy cutting. Shipping weight, 12 ounces.....80¢

Lakeside Special Arc Ground One-Man Perforated Lance Tooth Saw



Full arc ground. Fast cutting and requires but little set. Polished steel blade ground to a uniform thickness at cutting edge, with a uniform reduction in thickness from the teeth to the back, as well as from the point to the handle. Cutting edge is 15 gauge; back is 17 gauge at point, tapering to 19 gauge at the handle. Large handle has comfortable grip. Price includes supplementary handle. Shipping weight, 4 to 6½ pounds.

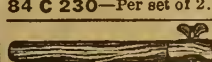
Length	3 ft.	3½ ft.	4 ft.	4½ ft.
184 C 219	$2.75	$3.20	$3.70	$4.15

Cross-Cut Saw Handles

Saw handles with malleable loop. Length, about 12 inches. Shipping weight, per set of two, 1½ pounds.

84 C 230—Per set of 2..................28¢

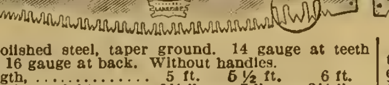
Climax Saw Handles



Climax Saw Handles, reversible. Length, 13 inches. Shipping weight, per set of two, 1½ pounds.

84 C 234—Per set of 2..................38¢

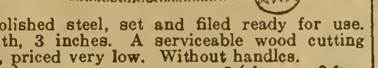
Lakeside Wide Champion Saw



Polished steel, taper ground. 14 gauge at teeth and 16 gauge at back. Without handles.

Length	5 ft.	5½ ft.	6 ft.
Shipping weight	6½ lbs.	7 lbs.	8½ lbs.
184 C 203	$2.80	$3.05	$3.40

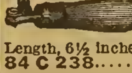
Lakeside Narrow Champion Saw



Polished steel, set and filed ready for use. Width, 3 inches. A serviceable wood cutting saw, priced very low. Without handles.

Length	5½ ft.	6 ft.
Shipping weight	4 lbs.	4¾ lbs.
184 C 201	$1.50	$1.65

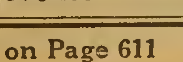
One-Man Saw Handle



One-Man Saw Handle. Beechwood. Not bored for screws. Ship. wt., 10 oz.

84 C 240..........................23¢

One-Man Saw Handle

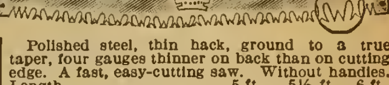


Supplementary Handle for one-man crosscut saws.

Length, 6½ inches. Shipping weight, 6 ounces.

84 C 238..........................17¢

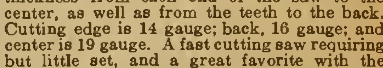
Lakeside Diamond Tooth Saw



Polished steel, thin back, ground to a true taper, four gauges thinner on back than on cutting edge. A fast, easy-cutting saw. Without handles.

Length	5 ft.	5½ ft.	6 ft.
Shipping weight	4½ lbs.	6¼ lbs.	½ lb.
184 C 206	$3.20	$3.55	$3.90

Lakeside Arc Ground Tuttle Tooth Saw



Full arc ground with a uniform reduction in thickness from each end of the saw to the center, as well as from the teeth to the back. Cutting edge is 14 gauge; back, 16 gauge; and center is 19 gauge. A fast cutting saw requiring but little set, and a great favorite with the expert woodsman. Polished crucible steel, finely tempered and finished. Set and filed ready for use. This is one of our very finest saws and will give entire satisfaction. Without handles.

Length	5 ft.	5½ ft.	6½ ft.	6 ft.
Shipping weight	5⅜ lbs.	6⅜ lbs.	7 lbs.	8 lbs.
184 C 205	$4.30	4.80	5.20	5.70

Keep your tools sharp. Grindstones are on Page 611

Lakeside Half Hatchet

Polished and Bronze Finished

Extra quality forged crucible steel. Has perfect hang and grip. Fitted with best grade white hickory handle. Has side nail puller. An ideal hatchet for general, hard usage. Shipping weight, 2 pounds. **State size wanted.**

Article Number **84 C 1658**

Size	Weight of Head	Width Bit	Price Each
1	1 pound	3¼ in.	89¢
2	1 lb. 5 oz.	3⅝ in.	98¢

89¢

Half Hatchet

A low priced hatchet for general household use. Made of cast steel, fitted with good handle. Size 2, width of blade, 3½ inches. Shipping weight, 2 pounds.
84 C 1671....40¢

Standard Half Hatchet

Made of forged steel. Black finish Size 2. Width of bit, 3⅝ inches. Weight of head, 1 pound, 2 ounces. Shipping weight, 2 pounds.
84 C 1669......65¢

Lakeside Shingling Hatchet

Extra forged steel. Polished and bronzed finish. Shipping wt., 1½ to 2½ lbs. **State size wanted.**
84 C 1640 — **Size 1.** Width, bit, 3½ inches Weight, head, 17 ounces. ....95¢
Size 2. Width bit, 4 inches. Weight, head, 1⅛ pounds.....**$1.10**

Lakeside Claw Hatchet

Forged crucible steel. Hickory handle. Shipping weights, 2½ to 3½ lbs. **State size wanted.**
84 C 1648—Size 1. Width of bit, 3½ inches. Weight, of head, 1¼ pounds...**$1.15**
Size 2. Width of bit, 4 inches. Weight, of head, 1½ pounds...**$1.25**

Lakeside Half Hatchet

Haines pattern, adze-eye, round head, solid steel. Thin blade, full polished. Hickory handle. Size 1. Width of bit, 3½ inches. Weight of head, 14 ounces. Shipping weight, 2½ pounds.
84 C 1656 $1.60

Lakeside Broad Hatchet

Best forged steel. Large hammer head. Smooth black, rust resisting finish. Perfect hang, correct grip. Extra quality white hickory handle. Shipping weights, 3 to 4 lbs. **State size wanted.**

Size	Weight	Bit	84 C 1650
2	1 lb. 12 oz.	4½ in.	$1.35
3	2 lb. 2 oz.	5 in.	1.50
4	2 lb. 8 oz.	5½ in.	1.85

Lakeside Lath Hatchet

Extra quality solid steel head lath hatchet. Thin blade, full grip handle. Full polished. Square checkered head. Bit, 2½ inches. Ship. wt., 2 pounds.
84 C 1662..............$1.75

Lakeside Broad Axe
Highest Quality

With rounded corners and wide bit. Smooth black finish. Handle not included. Shipping weights, 7 to 10 pounds.

Width	Ship. Weight	84 C 1722
11½ inches	7 pounds	$4.35
12 inches	7½ pounds	4.60
12½ inches	8 pounds	4.85

Broad Axe Handle. Shipping weight, 2 pounds.
84 C 1764..........................37¢

Ship Adze

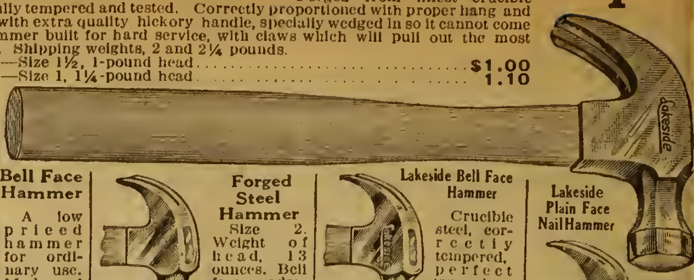
For chipping heavy timber. Refined steel bit, keen edge, spur head. Black finish. Width 4½ inches. Shipping weight, 4 pounds.
84 C 1725 $1.98

Carpenters' Adze

Lakeside Brand. For chipping heavy timber such as railroad ties, joists, and for bridge repairing. Keen edge. Bit, width, 4 inches. Weight, 4 lbs.
84 C 1724 $1.50

Adze Handle, made of selected second growth hickory, first quality. Length, 34 inches. Shipping weight, 1½ pounds.
484 C 1766......................38¢

Lakeside Hammers



Highly Polished Finish
Octagon Head

Forged from finest crucible steel. Carefully tempered and tested. Correctly proportioned with proper hang and curve. Fitted with extra quality hickory handle, specially wedged in so it cannot come loose. A Hammer built for hard service, with claws which will pull out the most stubborn nail. Shipping weights, 2 and 2¼ pounds.
84 C 1518—Size 1½, 1-pound head.......................**$1.00**
84 C 1519—Size 1, 1¼-pound head.......................**1.10**

$1.00 **$1.00**

Bell Face Hammer

A low priced hammer for ordinary use. Made of cast steel, fitted with good handle. Has a 1½-pound head. Shipping weight, 2 pounds.
84 C 1546......35¢

Forged Steel Hammer

Size 2. Weight of head, 13 ounces. Bell face, adze-eye. Carefully tempered. Hickory handle. Shipping weight, 1½ pounds.
84 C 1544........48¢

Lakeside Bell Face Hammer

Crucible steel, correctly tempered, perfect taper claw. Hickory handle. Shipping weight, 2 pounds.
84 C 1528—Size 1½. 1 pound head.......**85¢**
84 C 1529—Size 2. ⅞ pound head.......**80¢**

Lakeside Plain Face Nail Hammer

Forged crucible steel. Ship. weight, 2 lbs.
84 C 1524 — Size 1. 1¼-pound head.**95¢**
84 C 1525—Size 1½. 1-pound head:.**85¢**

Riveting Hammer

Head and pein are correctly shaped for riveting. Forged steel head, tempered. Fine hickory handle. Shipping weights, 1 to 2½ pounds.

Size	Weight, Head	84 C 1570
1	7 oz.	50¢
2	8 oz.	55¢
3	10 oz.	60¢

Magnetic Tack Hammer

Magnetized to hold tacks. Easy to reach difficult places. Shipping weight, 8 ounces.
84 C 1600......65¢

Lakeside Ripping Hammer

Bell Face. Highest grade forged steel. Straight claw for ripping. Hickory handle. Weight of head, 1 pound. Shipping weight, 1½ pounds.
84 C 1530.............85¢

Fiber Head Mallet

Vulcanized fiber head. Hardwood handle screws in. 5¾ inches high.
84 C 1610 — Diameter, 2½ inches. Shipping weight, 1¾ pounds**$1.35**
84 C 1612 — Diameter, 3 inches. Shipping weight, 2¼ pounds.......**$1.60**

Round Wood Mallet

Solid Hickory. Head about 3¾ inches. Ship. weight, 2¼ pounds.
84 C 1618.....50¢

Ball Pein Hammer

Solid forged steel, octagon neck. Hickory handle. Shipping weights, ¾ to 2½ pounds. **50¢**
84 C 1565 — State size.

Size	3-0	2-0	0	1
Head, ounces	8	12	16	20
Each	50¢	60¢	65¢	70¢

Size	2	3	4
Head, ounces	24	28	32
Each	75¢	80¢	90¢

Hammer Handles

First class hickory. For carpenters' adze-eye nail hammers. Length, 14 inches. Shipping weight, each, 6 ounces.
84 C 1560—Each..7¢ Per dozen......**70¢**

Hatchet Handles, First Quality Shipping weight, 12 ounces.

Article Number	Length	Price, Each
84 C 1676	15 inches	7¢
84 C 1677	17 inches	9¢

Masons' Tools

Lakeside Philadelphia Pattern Brick Trowel

Finest quality steel, highly polished, with leather handles.
84 C 2627

Length, Blade	10 in.	11 in.
Wt. oz.	13	16
Each	$1.45	$1.50

Brick Trowel Square Heel Pattern

72¢

Square heel trowel. Polished forged steel blade. Wood handle. Ship. wt., 14 and 16 ounces.
84 C 2629—10-inch size........**72¢**
84 C 2629—11-inch size..........**79¢**

Standard Pointing Trowel

Polished forged steel blade, with smooth hardwood handle. Ship. wt., 6 to 10 oz.

Length	4 in.	5 in.
84 C 2642	29¢	32¢

Tuck Pointing Tool

For pointing mortar. Face, ³⁄₁₆, ¼, ⁵⁄₁₆, ⅜ or ½ inch. State size. Ship. wt., 6 ounces.
84 C 2654....30¢

Standard Plastering Trowel

Good grade forged steel, well finished with wood handle. Shipping weight, 2 pounds.

Length, in.	11	12
Weight, oz.	18	20
84 C 2634	67¢	75¢

Lakeside Plastering Trowel

Correctly shaped and hang perfectly. Large wood grip and forged blade of finely polished steel. Ship. wt., 2 lbs. State size.

Lgth., in.	10½	11
84 C 2632	$1.10	$1.25

Lgth., in.	11½	12
84 C 2632	$1.28	$1.33

Plasterers' Cork Floats

Solid cork, smooth surface. Shipping weight, 6 to 12 ounces.

Size, in.	84 C 2638
12x4x1	38¢
12x5x1¼	50¢
12x6x1¼	70¢

Cement Roughing Rollers

Nicely finished. Size, 3¾ by 10 inches. With handle. Shipping weight, 11 pounds.
84 C 2702.$3.25

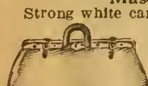
Sidewalk Edgers

Curved at ends. Nickel plated iron.
84 C 2686 — Size, 6 by 2¾ inches. Weight, 18 ounces. Ship. wt., 1½ lbs.**39¢**
84 C 2687 — Size, 6x2⅞ inches. Weight, 9 ounces.........**43¢**

Sidewalk Groovers

Curved ends. Nickel plated iron.
84 C 2680 — Size, 5½ by 2 inches. Shipping weight, 1½ pounds..........**40¢**
84 C 2682—Makes wide groove. Size, 9 by 3 in. Ship.wt.,2 lbs.**60¢**

Masons' Brick Hammer



For breaking, cleaning and laying bricks. Forged steel, black finish. Length of head, about 7 inches. Shipping weight, 2 pounds.
84 C 2663.....$1.25

Masons' Tool Bag

Strong white canvas, leather seams. Bottom has metal studs. Two riveted straps. Strong lock. Leather handle. Inside pocket. Shipping weights, 4 and 5 pounds.

84 C 2672
20-inch size........**$3.45**
24-inch size........**3.75**

Lakeside Mill File

Finest crucible steel, perfectly cut and tempered. Bastard single cut with square edges.

Length	4 in.	6 in.	8 in.	10 in.	12 in.	14 in.	16 in.
Shipping weight	4 oz.	4 oz.	6 oz.	8 oz.	12 oz.	20 oz.	32 oz.
84 C 1460	7¢	8¢	9¢	14¢	19¢	27¢	39¢

Lakeside Mill File—One Round Edge

Bastard single cut, with one round edge. Finest crucible steel, perfectly cut and tempered.

Length, inches	6	8	10	12	14
Ship. wt., ounces	4	6	8	12	20
84 C 1461	10¢	12¢	17¢	22¢	36¢

Lakeside Flat Bastard File

Bastard double cut. Finest crucible steel, perfectly cut and tempered.

Length	Shipping Weight	84 C 1462
4 inches	4 ounces	10¢
6 inches	4 ounces	11¢
8 inches	6 ounces	14¢
10 inches	8 ounces	19¢
12 inches	12 ounces	25¢
14 inches	1½ pounds	34¢
16 inches	2¼ pounds	47¢

Lakeside Round Bastard File

Bastard double cut. Finest crucible steel, perfectly cut and correctly tempered.

Length, inches	4	6	8	10	12
Ship. wt., ounces	1	2	3	4	8
84 C 1464	8¢	10¢	12¢	16¢	20¢

Lakeside Half Round Bastard File

Bastard double cut. Finest crucible steel, perfectly cut, correctly tempered.

Length	8 in.	10 in.	12 in.	14 in.
Shipping weight	6 oz.	8 oz.	12 oz.	16 oz.
84 C 1465	19¢	23¢	32¢	42¢

Lakeside Half Round Wood Rasp

Coarse cut. Finest crucible steel, perfectly cut, correctly tempered.

Length	10 in.	12 in.	14 in.
Shipping weight	½ lb.	1 lb.	1½ lbs.
84 C 1468	37¢	52¢	66¢

Handy Farm File

Quickly sharpens mowing machine knives. Smooth cut. Knife blade shape, not cut on thick edge. Blade, 9½ by ¾ inches. Strong wood handle. Shipping weight, ¾ pound.
84 C 1483..........................38¢

Heller Bros. Horse Rasp

Lgth.	Ship. Wt.	Price Each (84 C 1490)
12 in.	1¾ lbs.	25¢
14 in.	2½ lbs.	38¢
16 in.	2¾ lbs.	50¢

Genuine Heller Brothers Horse Rasp. Special crucible steel.

Lakeside Handy File Assortment

A very handy and useful file assortment. Consists of 1 each of the following files: 10-inch Lakeside Mill File; 8-inch Lakeside Mill File, with 1 round edge; 10-inch Lakeside Flat Bastard File; 4-inch Slim Taper Saw File, and 5½-inch Slim Taper Saw File. Shipping weight, 1¾ pounds.
84 C 1458..........................55¢

Double End Taper File

Single cut on all sides. Split wood handle.

Length	Ship. wt.	84 C 1432
8 in.	4 oz.	11¢
10 in.	5 oz.	13¢

Lakeside Regular Taper Saw File

Single cut on three sides. Finest steel, perfectly cut and correctly tempered.

Length	4 in.	5 in.	6 in.	8 in.
Shipping weight	½ oz.	1 oz.	2 oz.	4 oz.
84 C 1478	5¢	7¢	9¢	15¢

Lakeside Slim Taper Saw File

Single cut on three sides. Finest steel, perfectly cut.

Length, inches	3	4	5	5½	6	7	8
Shipping weight, ounces	¼	½	1	2	2½	3	3½
84 C 1480	4¢	6¢	7¢	8¢	9¢	11¢	12¢

Lakeside Cant Saw File

Single cut. Finest crucible steel, perfectly cut and tempered.

Length	Ship.Wt.	84 C 1472
6 in.	4 ounces	15¢
8 in.	6 ounces	18¢
10 in.	9 ounces	25¢

Auger Bit File

For filing all sizes auger bits without filing the screw and lip away. Extra Quality Steel. Length, about 7 inches. Shipping weight, 1 ounce.
84 C 1485..........15¢

Extra Slim Taper File

Single cut three sides.

Length	Ship. wt.	84 C 1481
5 in.	¾ oz.	7¢
6 in.	1 oz.	9¢

Collon Steel File Cleaner

Steel bristles and steel picker. Length, 7¾ inches. Shipping weight, 10 ounces.
84 C 1504.....39¢

Iron File and Tool Handle

Japanned Thumbscrew holds file or other small tool. Length, 5 inches. Ship. wt., 9 ounces.
84 C 1500..............9¢

Scrapers and Sand Paper

Steel Scraper for General Purposes

84 C 735—Crucible steel. Edges ground true and square. Size, 3 by 6 inches, Shipping weight, 4 ounces.........................**28¢**
84 C 734—Standard grade. Sizes vary from 4 to 6 inches long. Shipping weight, 4 ounces.
...................................**10¢**

Lakeside Floor Scraper

For all around general wood work. Hardwood handle; iron socket. 3-inch steel blade. Length, 14 inches. Shipping weight, 2½ pounds.
84 C 724..........................95¢

Stanley No. 82 Cabinet Scraper

For scraping and smoothing. Length, 14½ inches. Cutter, 3 inches. Shipping weight, 2¼ pounds.
84 C 729.........................$1.58

Cabinet Scraper

For scraping and smoothing. Japanned finish. Length, 11 inches. Blade, 2¾ inches. Shipping weight, 2 pounds.
84 C 726......95¢

Stanley Scraper Plane

For scraping veneers or cabinet work, paint, or glue. Length, 9 inches. Width, 2⅞ inches. Shipping weight, 5 pounds.
84 C 645....$3.50

Rapid Floor Scraper

Has a special tool steel knife and handle, adjustable to different heights. Rubber-tired wheels prevent scratching. Knife extends across entire width to get close to the wall or base board, and in corners. Width, 6 inches. Two knives included. Shipping weight, 130 pounds.
184 C 740........$9.95
84 C 741—Extra knives. Shipping weight, each 10 ounces. Each........................**85¢**

Sand Paper and Emery Cloth
Full Size Sheets

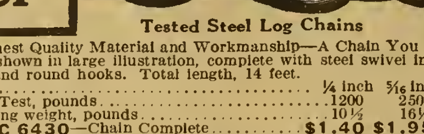
Sheets, 9 by 11 inches. No. 00 is the finest. Shipping weights, per 24 sheets, 1 to 3 pounds.

No.	84 C 2400 24 Sheets	84 C 2400 240 Sheets
00	25¢	$2.40
0	29¢	2.80
½	32¢	3.10
1	37¢	3.60
1½	42¢	4.10
2	48¢	4.70
2½	53¢	5.20
3	55¢	5.70

No.	84 C 2405 Each	84 C 2405 24 Sheets
00	7¢	$1.50
0	8¢	1.55
½	9¢	1.60
1	10¢	1.75
1½	11¢	1.80
2	12¢	1.90
2½	13¢	2.10

A package of sand paper and emery cloth. Ten sheets in all, size, 9 by 11 inches. Shipping weight, 12 ounces.
84 C 2402—Per package..............**32¢**

Steel Chain



Tested Steel Log Chains

Highest Quality Material and Workmanship—A Chain You Can Depend Upon. As shown in large illustration, complete with steel swivel in center and heavy grab and round hooks. Total length, 14 feet.

Size	¼ inch	⁵⁄₁₆ inch	⅜ inch	½ inch
Proof Test, pounds	1200	2500	3500	6200
Shipping weight, pounds	10½	16½	23	45
484 C 6430—Chain Complete	$1.40	$1.95	$2.35	$4.45

Size is diameter of rod from which chain is made. Safe working load one-half of proof test shown above. Breaking strain is double proof test.

Steel Cable Chain

Strong, Short straight links.

Size, inches	³⁄₁₆	¼	⁵⁄₁₆	⅜	⁷⁄₁₆	½
Test pounds	700	1200	2500	3500	4800	6200
Weight, per foot, pounds	½	⅞	1¼	2	2½	2¾
484 C 6432—Per foot	6¢	11¢	13¢	14¢	17¢	22¢

84 C 6438 **Wrought Repair Links**

For connecting iron chain. Ship. wts., per dozen, ½ to 2½ lbs.
³⁄₁₆ inch. Per dozen..............................**10¢**
¼ inch. Per dozen..............................**11¢**
⁵⁄₁₆ inch. Per dozen..............................**23¢**
⅜ inch. Per dozen..............................**34¢**

Chain Hooks

Round Chain Hooks. Forged iron. Shipping weights ⅜ to 1½ pounds.
84 C 6435
¼ inch..............**9¢**
⁵⁄₁₆ inch..............**12¢**
⅜ inch..............**16¢**
⁷⁄₁₆ inch..............**22¢**
½ inch..............**28¢**

Grab Chain Hooks. Forged iron. Ship. wts., ⅜ to 1⅜ pounds.
84 C 6436
¼ inch..............**9¢**
⁵⁄₁₆ inch..............**12¢**
⅜ inch..............**16¢**
⁷⁄₁₆ inch..............**22¢**
½ inch..............**28¢**

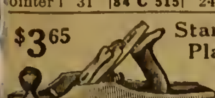
Quick firing, well-built Forges are shown on Page 610

Lakeside Wood Planes With Iron Tops $2.25

Same adjustments and cutters as Lakeside iron planes. Hardwood bottoms. Shipping weight, 3¾ to 7¼ pounds.

	Style	Article Number	Length Inches	Cutter Inches	Price Each
Smooth	24	84 C 510	8	2	$2.25
Smooth	35	84 C 511	8⅝	2	2.65
Jack	26	84 C 512	15	2	2.38
Fore	27	84 C 513	15	2⅛	2.65
Jointer	28	84 C 514	18	2⅜	2.90
Jointer	31	84 C 515	24	2⅜	3.15

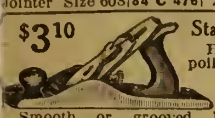
Stanley Bed Rock Plane—Smooth Bottom $3.65



A high-grade tool for fine work on all woods. English steel cutter. Adjustable sidewise and endwise. Strong iron frames, neatly finished, smooth bottom. Shipping weights, 4 to 11 pounds.

Manufacturer's Number	Article Number	Lgth. Inches	Width Cutter	Price Each
Smooth Size 603	84 C 470	8½	1¾	$3.65
Smooth Size 604	84 C 471	9	2	3.90
Jack Size 605	84 C 472	14	2	4.65
Jack Size 605½	84 C 473	15	2¼	4.95
Fore Size 606	84 C 474	18	2⅜	6.10
Jointer Size 607	84 C 475	22	2⅜	6.60
Jointer Size 608	84 C 476	24	2⅝	7.60

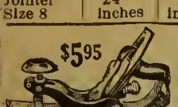
Stanley Bench Plane $3.10



Heavy iron frame, polished. Best quality steel cutter, adjustable endwise and sidewise. Smooth or grooved bottom. Shipping weights, 3½ to 11 pounds.

Style of Plane	Length	Width Cutter	Smooth Bottom	Grooved Bottom
Smooth Size 2	7 inches	1⅝ inches	84 C 480 $3.10	....
Smooth Size 3	8½ inches	1¾ inches	84 C 481 $3.25	84 C 490 $3.40
Smooth Size 4	9 inches	2 inches	84 C 482 $3.39	84 C 491 $3.55
Smooth Size 4½	10 inches	2⅜ inches	84 C 483 $4.10	84 C 492 $4.30
Jack Size 5	14 inches	2 inches	84 C 484 $3.98	84 C 493 $4.15
Jack Size 5½	15 inches	2¼ inches	84 C 485 $4.35	84 C 494 $4.55
Fore Size 6	18 inches	2⅜ inches	84 C 486 $5.20	84 C 495 $5.45
Jointer Size 7	22 inches	2⅜ inches	84 C 487 $5.95	84 C 496 $6.25
Jointer Size 8	24 inches	2⅝ inches	84 C 488 $7.10	84 C 497 $7.45

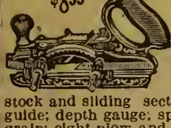
Stanley Circular Plane $5.95



The steel face is flexible and adjustable by means of knob at end of stock, so concave or convex surfaces may be worked as easily as straight ones. Width of steel cutter, 1¾ inches. Shipping weight, 4⅞ pounds.

84 C 642..............................**$5.95**

Stanley Traut's No. 46 Plow, Dado, and Fillister Plane $8.35



Nickel-plated iron frame. Tool steel cutters. Length 10 inches.

Set consists of: Main stock and sliding section; adjustable fence and guide; depth gauge; spurs for working across grain; eight plow and dado bits, 3/16, ¼, 5/16, ⅜, ½, ⅝, ⅞ and 1¼ inches; 1½-inch Fillister cutter; slitting tool and ¼-inch tongueing tool. Shipping weight, per set, 6 pounds.

84 C 665—Per set..................**$8.35**

Lakeside Planes $2.80

The frames of these planes are made of heavy Japanned iron. Sides and bottom accurate ground and polished. Strong cutter caps. The "Easy Grip" handle and knobs are of close grained hardwood. The cutters are made extra heavy to prevent clattering when planing rough boards or knots. The improved thumb nut adjustment in rear raises or lowers the cutters in removing blade, and the lever shown underneath adjusts the blade, assuring you of a smooth and level planing edge. Made with both smooth or grooved bottom. Shipping weights, 4¼ to 10¼ pounds.

Style of Plane	Length	Width Cutter	Smooth Bottom	Price Each	Grooved Bottom	Price Each
Smooth Style 3	8½ inches	1¾ inches	84 C 441	$2.80	....	....
Smooth Style 4	9 inches	2 inches	84 C 442	3.00	84 C 451	$3.30
Smooth Style 4½	10 inches	2⅜ inches	84 C 443	3.55	....	....
Jack Style 5	14 inches	2 inches	84 C 444	3.60	84 C 452	3.80
Jack Style 5A	15 inches	2¼ inches	84 C 445	3.98	84 C 453	4.25
Fore Style 6	18 inches	2⅜ inches	84 C 446	4.48	84 C 454	4.85
Jointer Style 7	22 inches	2⅜ inches	84 C 447	5.20	84 C 455	5.55
Jointer Style 8	24 inches	2⅝ inches	84 C 448	6.15	84 C 456	6.60

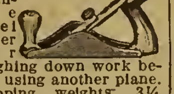
NOTE—We always fill orders for STANLEY and LAKESIDE Planes at the lowest Prices.
As we go to press our prices on **Stanley** and **Lakeside** planes are the **lowest in the present market.** However, if there should be any declines in the manufacturers' prices, during the life of this catalogue we will lower our prices immediately and refund the difference.

Buckeye Self Setting Plane

Grooved bottom. Cap and bit may be removed in an instant and dropped back into place together, and bit will cut exactly the same thickness of shaving as before. The corrugations or grooves help eliminate friction. Shipping weights, 3½ to 7 pounds.

Article Number	Length	Width Cutter	Price Each
84 C 457	9½ in.	2 in.	$2.95
84 C 458	14 in.	2 in.	4.20
84 C 459	18 in.	2¼ in.	4.90

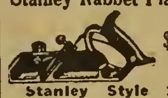
Stanley Scrub Plane



Single steel cutter. For roughing down work before using another plane. Shipping weights, 3¼ and 3½ pounds.

84 C 652—9½ inches long. 1¼-inch cutter..........**$1.75**
84 C 653—10½ inches long. 1½-inch cutter..........**$2.35**

Stanley Rabbet Plane $2.40

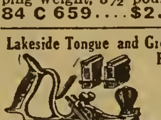


Stanley Style 190. Length, 8 inches, 1½-inch steel cutter. Shipping weight, 3½ pounds.
84 C 659....**$2.40**

Stanley Rabbet Plane and Fillister

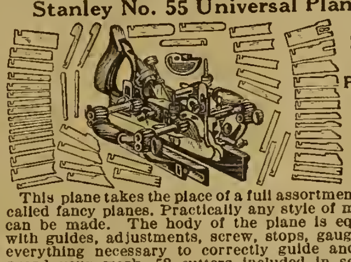
Style 78 iron plane. Length, 8½ inches, 1½-inch steel cutter. Shipping weight, 4⅛ pounds.
84 C 656....**$2.65**

Lakeside Tongue and Groove Plane



Fence acts as guide for grooving match for tongue. Two steel cutters, nickel plated. Ship. weight, 3½ pounds.
84 C 668—For ¾ to 1¼ in. boards..**$3.90**
84 C 669—For ⅜ to ¾ in. boards...**$3.90**

Stanley No. 55 Universal Plane $23.85 Plane with 52 Cutters



This plane takes the place of a full assortment of so-called fancy planes. Practically any style of molding can be made. The body of the plane is equipped with guides, adjustments, screw, stops, gauges and everything necessary to correctly guide and safeguard your work. 52 cutters included in set with book of instructions. All iron parts nickel-plated, handle and fences of selected hardwood. Shipping weight, complete set, 15¼ pounds.

84 C 702—Complete set..............**$23.85**

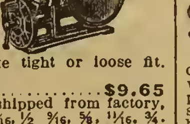
Stanley Gage Self Setting Plane $3.60

A popular plane with rigid self-setting cutter that will not chatter. Easily adjusted for fine or coarse work.

Made of beech wood, with an iron throat, adjustable for wear. Shipping weights, 4½ to 7 pounds.

Number	Mfrs. No.	Length	Cutter	Each
84 C 502	G22 Smooth	10 inches	1¾ inches	$3.60
84 C 503	G35 Smooth	10 inches	2 inches	3.85
84 C 504	G26 Jack	14 inches	2 inches	4.15
84 C 505	G28 Fore	18 inches	2¼ inches	4.75
84 C 506	G30 Jointer	22 inches	2¼ inches	5.10

Stanley Dowel Turner $9.65

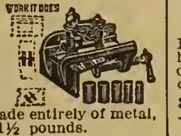


Stanley No. 77 dowel and rod turning machine, with ⅜-inch cutter.

Cuts wood dowels different sizes and lengths to perfect dimensions. Ready made dowels are apt to warp and shrink. Cutters are adjustable to make tight or loose fit. Shipping weight, 10 pounds.

484 C 388..............................**$9.65**
284 C 389—Extra Cutters, shipped from factory, postpaid. Sizes, inches, ¼, 5/16, 7/16, ½, 9/16, ⅝, 11/16, ¾. Each..............................**$1.10**

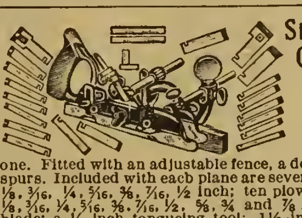
Stanley Doweling Jig



For quickly and accurately boring dowel holes in edge, end, or surface of work. Capacity up to 3 inches. Also a good bit guide for mortising. Has five steel guides. One each, ¼, 5/16, ⅜, 7/16, ½ inch in diameter. Length, 1¼ inches. Has depth gauge. Made entirely of metal, Nickel-plated. Shipping weight, 1½ pounds.

84 C 386..............................**$2.50**

Stanley No. 45 Combination Plane $12.15



Seven tools in one. Fitted with an adjustable fence, a depth gauge, and spurs. Included with each plane are seven beading tools ⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½ inch; ten plow and dado bits ⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾ and ⅞ inch; a slitting blade; a ¼-inch tongueing tool; 1½-inch sash tool, and 1¼-inch Fillister cutter. Nickel-plated finish. Directions included. Ship. wt., complete set, 9½ lbs.

84 C 695—Complete set.............**$12.15**

Lakeside Block Planes

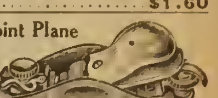
Style 102. Japanned finish. Steel cutter with screw adjustment under cap. Length, 5⅝ inches. Width, cutter, 1¼ in. Ship. weight, 1⅞ pounds.
84 C 586......**55¢**

Style 227. Japanned finish. Length, 7 inches. Steel cutter has screw adjustment. Width, cutter, 1⅝ inches. Shipping weight, 2½ pounds.
84 C 578..**$1.20**

Lakeside Adjustable Block Plane

Style 9½. An exceptionally handy plane for fine or coarse work. Japanned trimmings. Length, 6¼ inches. Improved throat adjustment. Steel cutter finely tempered. Shipping weight 2½ pounds.
84 C 542..............................**$1.60**

Stanley Knuckle Joint Plane



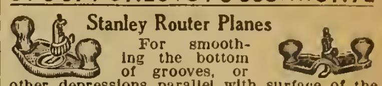
The nickel-plated **Knuckle Joint** in the cap is a lever which clamps the cutter in position. Steel cutter, 1⅝ inches. Shipping weight, 2¾ pounds.
84 C 552—Stanley, Style 18. Length, 6¼ inches..............................**$2.25**
84 C 554—Stanley, Style 19. Length, 7 inches..............................**$2.35**
84 C 548—**Lakeside**, Style 138. Length, 6¼ inches..............................**$1.89**

Lakeside Block Planes

Lakeside Double End Block Plane. Japanned finish. Length, 8 inches. Two cutter seats. In reverse position, it can plane close into corners. Width cutter, 1⅝ inch. Shipping weight, 2⅝ pounds.
84 C 574.**$1.20**

Lakeside Low Angle Block Plane. Style 85. Japanned trimmings. Length, 6 inches. Cutter is fixed at a low angle, so it will work smoothly across grain, without chattering. Has all improved adjustments. Cutter, 1⅜ inches wide. Ship. weight, 2½ lbs.
84 C 558....**$1.72**

Stanley Router Planes

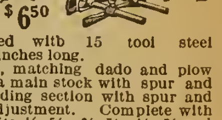


For smoothing the bottom of grooves, or other depressions parallel with surface of the work, also to route out mortises for sash frame pulleys. Made of iron, nickel-plated with 2 tool steel cutters, ¼ and ½ inch wide. Hardwood handles. Length, 7½ in. Ship. weight, 3¼ lbs.
84 C 680—Closed throat..........**$2.55**
84 C 681—Open throat............ **3.30**

Gauge for Iron Plane

Stanley's Style 386. For accurately planing bevels between 30 and 90 degrees. Plane not included. Ship. wt., 2½ lbs.
84 C 714....**$2.25**

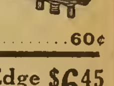
Stanley Combination Plane No. 50 with 15 Cutters $6.50



Iron, nickel-plated with 15 tool steel cutters. Plane, 9¼ inches long.

Combined beading, matching dado and plow plane. Consists of a main stock with spur and depth gauge. A sliding section with spur and fence with 5-inch adjustment. Complete with 7 plow and dado bits ¼, 5/16, ⅜, 7/16, ½, ⅝ and ⅞ inch. 7 Beading cutters, ⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½ inch. One pair ¼-inch matching cutters. Shipping weight, complete set, 5 pounds.
84 C 672—Complete set..........**$6.50**

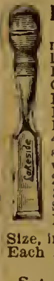
Bench Stop



For holding boards while planing. Reversible steel plate may be raised to 1⅜ inches. Shipping weight, 12 ounces.
84 C 390..............................**60¢**

LAKESIDE

Butt Chisel

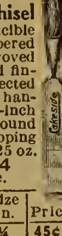


Preferred by many to the regular long blade. Bevel edges. Ground sharp. Leather top. Hickory handle. Length of blade, 4½ inches. State size. Shipping weights, 4 to 20 ounces.

84 C 814

Size	¼	½	¾	1	1½	2
Each	38¢	42¢	45¢	55¢	65¢	80¢

Plain Edge Chisel



Best crucible tool steel, tempered by an improved process. Well finished. Selected white hickory handle, full 6-inch blade. Ground sharp. Shipping weights, 5 to 25 oz.

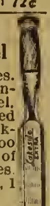
84 C 804
State size.

Size In.	Price	Size In.	Price
⅛	29¢	¾	45¢
¼	32¢	1	48¢
⅜	35¢	1¼	54¢
½	39¢	1½	58¢
⅝	42¢	2	72¢

Set of Six Chisels Highest Quality

As listed above. Shipping weight, per set, 3½ pounds.
84 C 815—Per set.**$2.95**

Lakeside Framing Chisel

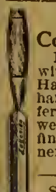


Beveled edges. Fast cutters. Finest quality steel, correctly tempered and finished. Hickory handle, iron ferrule. Length of blade, 8 inches. Shipping weights, 1 to 2 pounds.

84 C 825
State size.

Size In.	Price	Size In.	Price
¼	50¢	1¼	$.85
⅜	55¢	1½	.95
½	75¢	1¾	1.10
¾	60¢	2	1.20
1	65¢	..	....

Lakeside Corner Chisel

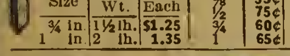


High-grade steel with 8-inch blade. Has hickory socket handle and iron ferrule. A reliable well made tool for finishing out corners smoothly.

84 C 828

Size	Ship. Wt.	Price Each
¾ in.	1½ lb.	$1.25
1 in.	2 lb.	1.35

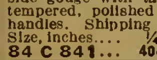
Gouge



Lakeside gouge with tang. This 4-inch blade is tempered, polished and sharpened. Hickory handles. Shipping weights, 5 to 10 ounces.

Size, inches....	¼	⅜	½	⅝	¾	⅞	1
84 C 841...	40¢	45¢	50¢	55¢	65¢	70¢	75¢

Carpenters' Slick



Length of blade, 10 inches. Polished hardwood handle. Shipping weights, 4½ to 7 pounds.

Width, blade, inches....	2½	3	3½	4
84 C 830............	$2.45	$2.85	$3.15	$3.85

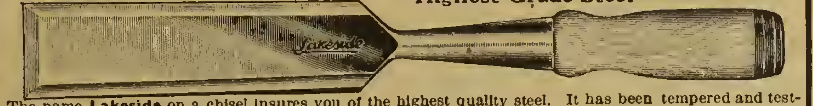
Chisel Handles

For socket firmer chisels. Leather tipped. Ship. wt., 4 ounces.
84 C 864..... **10¢**

For socket framing chisels. Heavy iron ferrule. Ship. wt., 4 oz.
84 C 862....... **6¢**

Lakeside Bevel Edge Chisels 40¢

Highest Grade Steel



The name **Lakeside** on a chisel insures you of the highest quality steel. It has been tempered and tested and found to be a perfect tool in every detail. Our Guarantee enables you to try these chisels or any "Lakeside" tool without risk. Absolute Satisfaction or your Money Back.

Lakeside extra quality bevel edge socket firmer chisels. Full size 6-inch blades, accurately beveled edges and ground ready to use. Handles are selected white hickory, with leather tips. Shipping weights, 6 to 26 ounces.

Sizes, inches..........	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2
84 C 810—Each.....	40¢	42¢	44¢	46¢	50¢	54¢	58¢	62¢	66¢	70¢	80¢	90¢

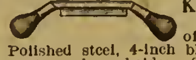
For Prices in Sets of Six and Twelve Chisels See Nos. 84 C 811 and 84 C 812 On This Page.

$3.25 Lakeside Bevel Edge Chisel Set $6.45

Six Bevel Edge Chisels, One ea. ¼, 1, 1½ and 2 in. Hickory handles, leather tops, 6½-in. blades. Ship. weight, per set, 5 pounds.
84 C 811—Per set.**$3.25**

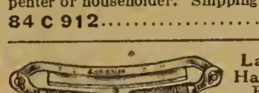
Twelve Bevel Edge Chisels. One ea., ⅛, ¼, ⅜, ½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾ and 2 in. Hickory handles, leather tops. Ship. wt., per set, 8½ lbs.
84 C 812—Per set......**$6.45**

Knob Handle Draw Shave



Palm fitting knob handles of closely grained hardwood. Polished steel, 4-inch blade. Convenient for carpenter or householder. Shipping weight, 1 pound.
84 C 912..............................**50¢**

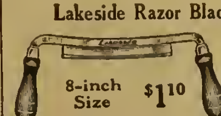
Lakeside Folding Handle Draw Knife



Forged tool steel blade, finely polished. Hardwood folding handles, riveted on securely. Held rigid at any angle with thumb nut. Shipping weights, 1¾ to 2 pounds.

Size of blade............	8 inches	10 inches
84 C 898............	**$2.15**	**$2.45**

Lakeside Razor Blade Drawing Knife

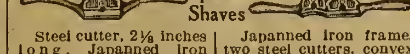


8-inch Size $1.10

Forged from crucible steel, finely tempered and polished. Hardwood handles. Tangs extend through handle and are riveted over a steel cap. Shipping weights, 1½ to 2 pounds.

Size of blade.......	8 inches	10 inches	12 inches
84 C 895.......	**$1.10**	**$1.25**	**$1.40**

Spoke Shaves



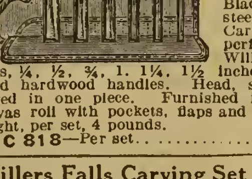
Steel cutter, 2⅛ inches long. Japanned iron frame. Raised handles. Shipping weight, 12 oz.
84 C 900.......**35¢**

Japanned iron frame, two steel cutters, convex and straight. Shipping weight, 12 ounces.
84 C 903.......**48¢**

Witherby Chisel Set

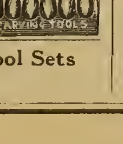
Set of 6 Socket Chisels with beveled edges. Forged from the finest tool steel. Short blades, 3½ inches long, with leather-tipped handles. One each, ¼, ½, ¾, 1, 1¼, 1½ inches. Shipping weight, per set, 4 pounds.
84 C 880—Per set..**$5.45**

Stanley Everlasting Chisel Set



Stanley No. 110. Set of 6 chisels. Blades of finest tool steel, 4½ inches long. Carefully finished, perfectly tempered. Will take a keen edge. Sizes, ¼, ½, ¾, 1, 1¼, 1½ inches. Finely finished hardwood handles. Head, shank and blade forged in one piece. Furnished in strong brown canvas roll with pockets, flaps and straps. Shipping weight, per set, 4 pounds.
84 C 818—Per set..........................**$7.15**

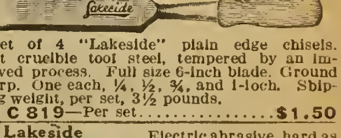
Millers Falls Carving Set



The set consists of six tools of the finest grade. Blades are 2½ inches long. Polished hardwood handles. The tools are very carefully made. In neat wood box. Shipping weight, per set, 1 pound.
84 C 892—Per set....... **$2.50**

See Index for Complete Tool Sets and Tool Chests

Lakeside Plain Edge Chisel Set $1.50



Set of 4 "Lakeside" plain edge chisels. Best crucible tool steel, tempered by an improved process. Full size 6-inch blade. Ground sharp. One each, ¼, ½, ¾, and 1-inch. Shipping weight, per set, 3½ pounds.
84 C 819—Per set................**$1.50**

Lakeside Oil Stone

Electric abrasive, hard as a diamond, rapid cutting. One side coarse, other side fine, for keen, sharp edge. Size, 8 by 2 by 1 inch. Shipping weight, 2 pounds.
84 C 2468..............................**85¢**

Lakeside Emery Oil Stones

Composed of Emery and Corundum. Coarse side for sharpening, fine side for finishing. For edge tools. Shipping weights, 1½ and 2 pounds.
84 C 2464—Size, 6 by 2 by ¾ inches...**27¢**
84 C 2465—Size, 8 by 2 by 1 inches....**50¢**

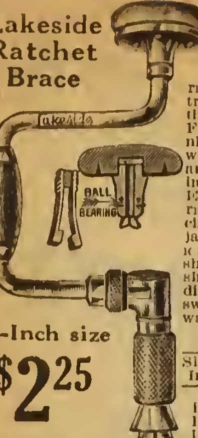
White Washita Stone

For woodworking tools. Smooth, even and soft oilstone which cuts fast and true. In hardwood covered box.
84 C 2431—Size stone, about 6 by 2 in. Shipping weight, 1⅛ pounds.........**50¢**
84 C 2433—Size stone, about 8 by 1¾ inches. Shipping weight, 1½ pounds...........**70¢**

Lakeside Braces and Bits

TRADE MARK

Lakeside Ratchet Brace



Ball Bearing

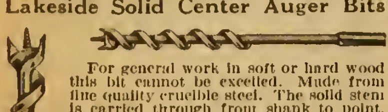
Lakeside improved ratchet bit brace; extra quality. Made of the finest materials. Finely finished and nickel-plated. Fitted with hardwood head and handle. Ball bearing, metal clad head. Enclosed easy-acting ratchet. Improved chuck with hardened jaws; will firmly grip any regular square shank bit and round shanks up to ⅜ inch diameter. Heavy steel sweep. State size wanted.

8-Inch size **$2.25**

84 C 1230

Size In.	Ship. Wts.	Price Each
8	3 lbs.	$2.25
10	3½ lbs.	2.60
12	4 lbs.	2.75
14	4½ lbs.	2.90

Lakeside Solid Center Auger Bits



For general work in soft or hard wood this bit cannot be excelled. Made from fine quality crucible steel. The solid stem is carried through from shank to point. Made with deep, sharp spurs and standard fast cutting feed screw. Double cutters. Carefully tempered. Finely polished and finished. Shipping weights, 2 to 12 ounces.

84 C 918—State size.

Size	¼	5/16	⅜	7/16	½	9/16	⅝
Each	20¢	22¢	24¢	26¢	29¢	38¢	40¢

Size	11/16	¾	13/16	⅞	15/16	1
Each	45¢	49¢	52¢	57¢	61¢	64¢

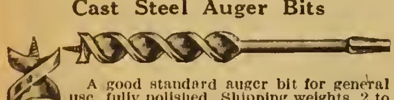
13-Piece "Lakeside" Bit Set

Consists of 13 Lakeside solid center stem auger bits described above, 1 each of the sizes listed above. In neat strong canvas roll with pockets and flaps. Shipping weight, per set, 3 pounds.

84 C 1008 Per set........ **$5.30**

For other sets see 84 C 994, 995, 996.

Cast Steel Auger Bits



A good standard auger bit for general use, fully polished. Shipping weights, 2 to 12 ounces.

84 C 916—State size.

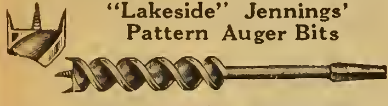
Size	Each	Size	Each	Size	Each	Size	Each
3/16 in.	15¢	7/16 in.	23¢	11/16 in.	33¢	15/16 in.	44¢
¼ in.	17¢	½ in.	25¢	¾ in.	35¢	1 in.	46¢
5/16 in.	19¢	9/16 in.	29¢	13/16 in.	38¢	18/16 in.	55¢
⅜ in.	21¢	⅝ in.	32¢	⅞ in.	42¢		

Set of 6 Bits Described above

One each, ¼, ⅜, ½, ⅝, ¾, 1 inch. In hinged hardwood box. Ship wt., per set, 2¼ lbs.

84 C 983—Per set........ **$1.75**

"Lakeside" Jennings' Pattern Auger Bits



Lakeside auger bits. Strictly first class in every respect. For general work in soft or hard wood. Fine quality crucible steel. The twist has correct pitch, is well polished and clears easily. The bits have deep, sharp spurs, and standard smooth cutting feed screw. Double cutters. Extension lip. Shipping weights, 3 to 16 ounces.

84 C 915—State size.

Size inches	¼	5/16	⅜	7/16	½
Each	29¢	31¢	33¢	35¢	37¢

Size inches	9/16	⅝	11/16	¾	13/16
Each	42¢	45¢	49¢	54¢	62¢

Size inches	⅞	15/16	1	1⅛	1¼
Each	65¢	72¢	75¢	87¢	$1.04

Set of 13 "Lakeside" Jennings' Pattern Auger Bits **$6.30**

One each, ¼ to 1-inch sizes described above. In neat, strong canvas roll with pockets and flaps. Shipping weight, per set, 3 pounds.

84 C 1006—Per set........ **$6.30**

For set in box see 84 C 980.

Genuine Russell Jennings' Auger Bits

Full polished, with deep extension lips and spurs. Widely known among the best mechanics and carpenters. Ship wts., 2 to 12 ounces.

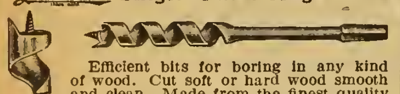
84 C 917—State size.

Size Inches	¼	5/16	⅜	7/16	½	9/16	⅝
Each	35¢	37¢	39¢	41¢	43¢	47¢	50¢

Size inches	11/16	¾	13/16	⅞	15/16	1
Each	55¢	60¢	65¢	70¢	75¢	79¢

For set in box see 84 C 985.

Lakeside Single Twist Auger Bits



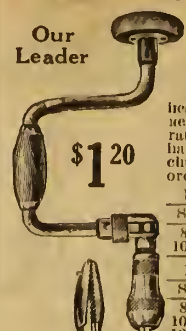
Efficient bits for boring in any kind of wood. Cut soft or hard wood smooth and clean. Made from the finest quality of crucible steel. The twist has correct pitch and clears easily. Made with single spur and single extension lip. Standard, fast cutting feed screw. Carefully and accurately tempered. Highly polished and finished. Each bit is carefully tested. Shipping weights, 5 to 14 ounces.

84 C 919—State size.

Size	¼	5/16	⅜	7/16	½	9/16	⅝
Each	32¢	34¢	36¢	38¢	41¢	44¢	46¢

Size	11/16	¾	13/16	⅞	15/16	1
Each	51¢	53¢	61¢	64¢	71¢	74¢

Our Leader — High Grade Ratchet Brace



$1.20

Ratchet bit brace with heavy steel sweep, and easy acting right and left ring ratchet. Hardwood head and handle. Substantial screw chuck and jaws to take all ordinary bits.

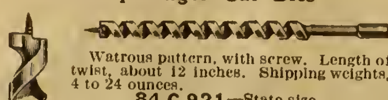
Plain polish finish.

Size	Ship. wt.	84 C 1244
8 in.	2½ pounds	$1.20
10 in.	3 pounds	1.30

Nickel-plated finish.

Size	Ship. wt.	84 C 1240
8 in.	2½ pounds	$1.40
10 in.	3 pounds	1.50
12 in.	3½ pounds	1.60

Ship Auger Car Bits



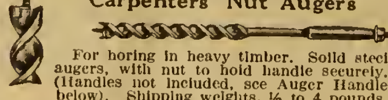
Watrous pattern, with screw. Length of twist, about 12 inches. Shipping weights, 4 to 24 ounces.

84 C 921—State size.

Size	⅜	7/16	½	9/16	⅝	11/16
Each	84¢	87¢	90¢	93¢	96¢	98¢

Size	¾	13/16	⅞	15/16	1	1 1/16
Each	$1.03	$1.07	$1.11	$1.19	$1.24	$1.32

Carpenters' Nut Augers



For boring in heavy timber. Solid steel augers, with nut to hold handle securely. (Handles not included, see Auger Handle below). Shipping weights, ½ to 4 pounds.

84 C 925—State size.

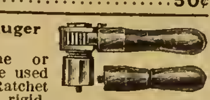
Size	¾	1	1¼	1½	2
Each	83¢	$1.14	51.44	$1.82	$2.43

Auger Handle

Will fit any size auger. Grips auger firmly. Made of selected hardwood. Length, 17½ inches. Shipping weight, 1 pound.

84 C 927........ **50¢**

Pratt's Ratchet Auger Handle



Operates with one or both handles. May be used as ratchet drill. Ratchet works right, left or rigid. Chuck will hold all ordinary augers and bits. Length, 15 inches. Shipping weight, 3 pounds.

84 C 928........ **$3.35**

Genuine Cleveland Wood Brace Bits

Twist drills. Factory No. 114A. Highly tempered. Will cut nails or soft metal without injury. With square shank for regular bit braces. Shipping weights, 2 to 6 ounces.

84 C 955—State size.

Size	⅛	5/32	3/16	7/32	¼	9/32	5/16
Each	13¢	16¢	19¢	23¢	26¢	30¢	32¢

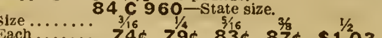
Size	11/32	⅜	13/32	7/16	15/32	½
Each	34¢	37¢	40¢	43¢	47¢	52¢

Set of 7 Cleveland Wood Brace Bits

One each, ⅛, 5/32, 3/16, 7/32, ¼, 5/16 and ⅜ inch. Bits as described above in a neat leatherette case. Shipping weight, per set, 20 ounces.

84 C 958—Per set........ **$1.35**

Genuine Cleveland Electricians' Bits



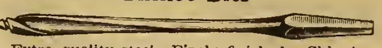
Length, 24 inches, made of high grade tough steel, polished and tempered. May be sharpened. Shipping weights, ½ to 2 pounds.

84 C 960—State size.

Size	3/16	¼	5/16	⅜	½
Each	74¢	79¢	83¢	87¢	$1.03

Size	9/16	⅝	¾	⅞	1
Each	$1.14	$1.24	$1.45	$1.69	$1.94

Gimlet Bits



Extra quality steel. Finely finished. Shipping weight, 2 ounces.

84 C 952—State size.

Size, inch	2/32	3/32	4/32	5/32	6/32
Each	9¢	9¢	9¢	9¢	9¢

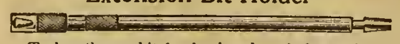
Size, inch	7/32	8/32	9/32	10/32
Each	9¢	9¢	9¢	9¢

Set of 9 Gimlet Bits

One each of bits described above, 2/32 to 10/32 inch. Shipping weight, per set, 12 ounces.

84 C 953—Per set........ **75¢**

Extension Bit Holder



To lengthen a bit for boring deep holes. Chuck for holding square shank bits. Will follow a ⅝-inch or larger bit into a hole. State length wanted. Shipping weights, ¾ to 1½ pounds.

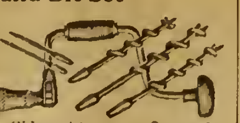
Length	12 in.	18 in.	24 in.
84 C 1150	$1.13	$1.23	$1.39

Regards Lakeside Saw as Best

"Everything on our order gave entire satisfaction. The Lakeside Saw beats any saw I ever handled. I would not give it for three others." M. C. McCaw, Cottondale, Ala.

Printed with Mr. McCaw's permission.

Brace and Bit Set



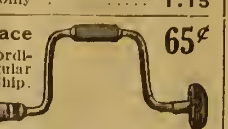
$1.85

Ratchet brace. 10-inch sweep. 3 solid center auger bits, common sizes. 2 gimlet bits. Ship. wt., per set, 3 pounds.

84 C 998—Per set........ **$1.85**

84 C 1245—Brace only........ **1.15**

Plain Sleeve Brace



65¢

Good quality. For ordinary use. Jaws for regular square shank bits. Ship. wt., 2½ pounds.

84 C 1250—8-in. sweep.. **65¢**

84 C 1251—10-in. sweep........ **70¢**

84 C 1254—Nickel plated. 10-in. sweep. **85¢**

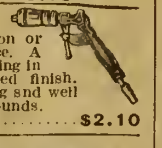
Corner Brace

For rapid and accurate work. Enables you to drill holes close to corners. Covered gears. Hardwood head and handle. Nickel-plated finish. State size wanted. Shipping weights, 4½ and 5 pounds.

84 C 1370—8-inch sweep.... **$4.60**

10-inch sweep... **5.10**

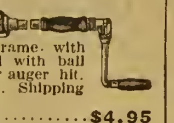
Angular Boring Attachment



May be used as an extension or angular borer in any bit brace. A very convenient tool when working in corners. Nickel and Japanned finish. Adjustable to any angle. Strong and well made. Shipping weight, 2¼ pounds.

84 C 1260........ **$2.10**

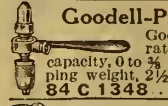
Ratchet Sill Borer



For boring holes at right angles in cramped quarters. Malleable iron frame with hardened steel gears. Fitted with ball bearings. Holds any regular auger bit. 23 inches long, 12-inch sweep. Shipping weight, 5½ pounds.

84 C 1262........ **$4.95**

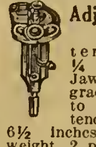
Goodell-Pratt Ratchet Drill



Goodell-Pratt drill. Reversible ratchet. Three-jawed chuck; capacity, 0 to ⅜ inch. 8-inch handle. Shipping weight, 2½ pounds.

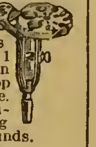
84 C 1348........ **$3.30**

Adjustable Hollow Augers



Cuts wood tenons from ¼ to 1¼ inch. Jaws have graduated scale to regulate tenon. Length, 6½ inches. Shipping weight, 2 pounds.

84 C 1202 ..**$2.40**



Cuts tenons from ⅜ to 1 inch. Has an adjustable stop and steel blade. Length, 6 inches. Shipping weight, 2 pounds.

84 C 1200. **$1.05**

Adjustable Spoke Pointer

Graduated adjustable shank. Steel cutter. Japanned finish. Square shank. Shipping weight, 1½ pounds.

84 C 1210—Size 1. Points up to 1⅞ inches diameter........ **75¢**

84 C 1211—Size 2. Points up to 2⅝ inches diameter........ **$1.00**

Boring Machine

For Any Kind of Heavy Work

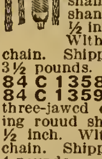
A strong, well made boring machine, which will bore quickly and give excellent service. For boring in heavy timber. Holds any boring machine auger. Has graduated ways, swinging racks and malleable crank. May be used to bore at any desired angle. Chuck has ½-inch round hole. Base and uprights are made of seasoned hardwood. For augers to use on this machine see below. Shipping weight, 40 pounds.

184 C 1378...**$6.85**

$6.85

Chain Drills

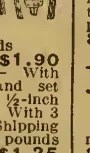
With square shank to fit bit braces



Has improved automatic feed. Ball Bearing. Improved two-jaw chuck holds any square shanks or round shanks up to ½ inch diameter. With 3 feet of chain. Shipping weight, 3½ pounds.

84 C 1358...**$2.80**

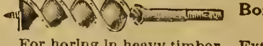
84 C 1359 — With three-jawed chuck holding round shanks up to ½ inch. With 3 feet of chain. Shipping weight, 4 pounds........ **$3.10**



84 C 1357—With sleeve chuck for ½-inch round or square shank bits. With 3 feet of chain. Shipping weight, 3 pounds........ **$1.90**

84 C 1354— With plain chuck and set screw to hold ½-inch round shanks. With 3 feet of chain. Shipping weight, 3¼ pounds........ **$1.25**

Boring Machine Augers

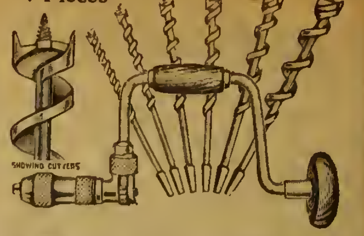


For boring in heavy timber. Extra quality steel. Round shanks. Shipping weights, 12 to 25 ounces.

Size	1 in.	1¼ in.	1½ in.	2 in.
84 C 923	$1.15	$1.35	$1.65	$2.40

Lakeside Brace and Bit Set

7 Pieces

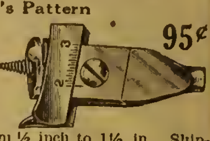


Set consists of one Lakeside nickel-plated steel ratchet brace, and 6 solid center stem auger bits. Brace has 10-inch sweep; hardwood head and handle; improved chuck with hardened jaws which firmly hold all square shanks and round shanks up to ½ inch diameter. Bits are fully polished. Sizes, ¼, ⅜, ½, ⅝, ¾ and 1 inch. Shipping weight, per set, 4 pounds.

84 C 997—Per set........ **$3.25**

Lakeside Expansive Bits

Clark's Pattern



95¢

A high grade, full polished expansive bit. Easily adjusted by loosening screw and sliding cutter in or out. With two tool steel cutters.

84 C 935—Cuts from ½ inch to 1½ in. Shipping weight, 7 ounces........ **95¢**

84 C 936—Cuts from ⅞ inch to 3 inches. Shipping weight, 13 ounces........ **$1.50**

Extra Cutters

84 C 937—For Lakeside Bit No. 84 C 935. Shipping weight, 2 ounces.

Size 1—Cuts ½ to ⅞ inch........ **24¢**

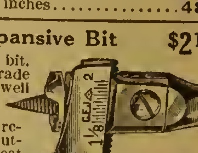
Size 2—Cuts ⅞ to 1½ inches........ **30¢**

84 C 938 — For Lakeside Bit No. 84 C 936. Shipping weight, 2 ounces.

Size 3—Cuts ⅞ to 1¾ inches........ **42¢**

Size 4—Cuts 1¾ to 3 inches........ **48¢**

Steer's Expansive Bit **$2.10**



Extra fine quality bit. Made of best grade drop forged steel, well finished. Cutter adjustable by a micrometer screw, which prevents slipping. Two cutters included. In neat cloth case.

84 C 940—Cuts from ⅝ inch to 1¾ inches. Shipping weight, 8 ounces........ **$2.10**

84 C 941—Cuts from ⅞ inch to 3 inches. Shipping weight, 12 ounces........ **$2.60**

Extra Cutters

84 C 942—For Steer's bit No. 84 C 940. Shipping weight, 2 ounces.

Size 1—Cuts ⅝ to 1⅛ inches........ **40¢**

Size 2—Cuts 1⅛ to 1¾ inches........ **48¢**

84 C 944—For Steer's bit No. 84 C 941. Shipping weight, 2 ounces.

Size 3—Cuts ⅛ to 1¾ inches........ **52¢**

Size 4—Cuts 1¾ to 3 inches........ **58¢**

Size 5—Cuts 3 to 4 inches........ **89¢**

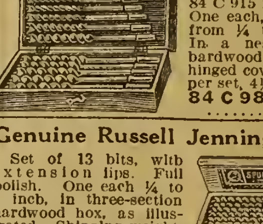
Lakeside Solid Center Bit Set

84 C 994—Set of 13 bits in wood box. One each, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16, ¾, 13/16, ⅞, 15/16 and 1 inch. Ship. wt., per set, 5¼ lbs. Per set........ **$4.50**

84 C 995—Set of 8 in Wood Box. One each, ¼, 5/16, ⅜, ½, ⅝, ¾, ⅞ and 1 inch. Ship. wt., per set, 4¼ lbs. Per set...... **$3.50**

84 C 996—Set of 6 in Wood Box. One each, ¼, ⅜, ½, ⅝, ¾, and 1 inch. Ship. wt., per set, 3¼ lbs. Per set. **$2.20**

Lakeside Jennings' Pattern Bit Set



Thirteen extension lip auger bits. Lakeside Jennings' pattern. See 84 C 915 for description. One each, by sixteenths, from ¼ to 1 inch size. In a neatly varnished hardwood box with hinged cover. Ship. wt., per set, 4½ pounds.

84 C 980—Per set........ **$5.90**

Genuine Russell Jennings' Bit Set

Set of 13 bits, with extension lips. Full polish. One each ¼ to 1 inch, in three-section hardwood box, as illustrated. Shipping weight, per set, 5 pounds

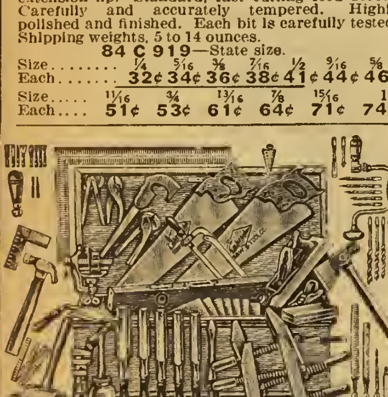
84 C 985—Per set........ **$7.95**

Jennings' Bit and Chisel Set

Set of 11 C. E. Jennings' tools. 4 socket firmer chisels, leather tip handles, ¼, ½, ¾, 1 inch. Length of blade, about 3½ inches. Seven solid center auger bits, ¼ to 1 inch. Shipping weight, per set, 5 pounds.

84 C 884—Per set........ **$7.85**

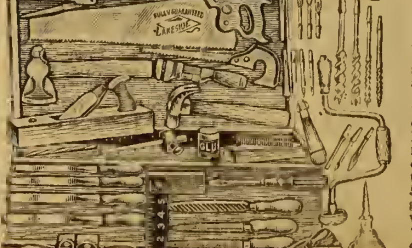
Lakeside 56-Piece Tool Set **$29.90**



A chest of fine well-made tools. Size of chest, inside: length, 31½ inches; width, 16 inches; depth, 9½ inches. Has sliding tray, lock and nicely finished handles. Set consists of the following: One Lakeside 24-inch handsaw; one Lakeside 24-inch rip-saw; one 10-inch compass saw; one 8 to 12-inch adjustable hack saw; one bench vise; five chisels, ¼, ⅜, ½, ¾, 1-inch; four auger bits, ⅜, ½, ¾, 1-inch; five gimlet bits; countersink bit; screw driver bit; hollow handle awl and tools; 10-inch ratchet brace; nail set; wood-bottom jack plane; 7-inch iron block plane; 6-inch flat cutting pliers; pair 6-inch compasses; 6-inch try square; 8-inch wrench; carpenters' pencil; 6-inch screwdriver; 8-inch draw knife; half hatchet; steel hammer; heavy mallet; folding rule; 24-inch plumb and level; two wood hand screws; 6-inch taper file; 3 file handles; 8-inch flat file, 10-inch cabinet rasp; steel square; iron plumb bob; nail pincers; 6-inch emery oil stone; oil can; can glue; glass cutter; assorted nails, screws, sandpaper. Shipping weight, complete, with chest, 88 pounds.

184 C 2778—Complete set, with chest........ **$29.90**

184 C 2779—Chest only, without tools. Shipping weight, 50 pounds........ **7.70**



Sterling 36-Piece Tool Set **$19.90**

A well made chest, nicely finished with assortment of 36 standard tools. Inside dimensions: Length, 28 inches; width, 14 inches; and depth, 9½ inches. One each of the following: Wood jack plane; iron block plane; 22-inch Lakeside hand saw; 10-inch compass saw; 1-inch, ¾-inch, ½-inch and ¼-inch chisels; 1-inch, ¾-inch, ½-inch and ⅜-inch auger bits; screwdriver bit; hollow handle, with 10 tools. 10-inch bit brace; 6-inch screwdriver; shingling hatchet; spoke shave; steel nail hammer; 2½-inch pocket level; 6-inch try square; marking gauge; 6-inch flat cutting pliers; 6-inch compass; 8 by 2-inch oil stone; 2-foot rule; carpenters' pencil; 8-inch wrench; oil can; 6-inch flat file; 5-inch round file; 5-inch taper file; nail set; can glue; also 2 gimlet bits and 3 file handles. Shipping weight, complete, with chest, 75 pounds.

184 C 2770—Complete with chest.. **$19.90**

484 C 2771—Chest only, without tools. Shipping weight, 43 pounds........ **$6.70**

Lakeside Wrenches may be found on Page 594

Genuine Cleveland Twist Drill Company's High Grade Metal Drills

Straight Shank Twist Drills

High-grade drills, carefully ground and tempered. Shanks are the same diameter as the drills. (For sets see 84 C 1054, 1062, 1064.) Shipping weights, 1 to 5 ounces.

Diam. inches	1/16	3/32	1/8	5/32	3/16	7/32	1/4
Length, inches	2 1/16	2 3/16	2 3/16	2 3/16	2 3/16	3 1/16	3 1/16
84 C 1060	4¢	4¢	5¢	5¢	5¢	5¢	6¢
Diam. inches	1 1/64	1/16	1 3/64	1/32	1 5/64	1/4	1 7/64
Length, inches	3 3/16	3 1/2	3 3/16	3 3/16	3 7/16	4	4 1/16
84 C 1060	7¢	7¢	8¢	8¢	9¢	10¢	11¢
Diam. inches	9/32	19/64	5/16	21/64	11/32	23/64	3/8
Length, inches	4 1/16	4 3/16	4 1/2	4 3/16	4 3/16	4 7/16	5
84 C 1060	12¢	13¢	14¢	15¢	16¢	17¢	18¢
Diam. inches	25/64	13/32	27/64	7/16	29/64	15/32	31/64	1/2
Length, inches	5 1/16	5 1/4	5 3/16	5 1/4	5 1/16	5 5/16	6
84 C 1060	19¢	21¢	23¢	25¢	28¢	31¢	35¢	40¢

Round Shank Metal Drills

Best quality twist drills for blacksmiths and power machines. Accurately ground to exact size, fast cutting, tough and durable. Carefully inspected. Drills up to 1/4 inch, are 4 3/8 inches long, and drills larger than 1/4 are 6 inches long. Made with 1/2-inch round shank. State size. Shipping weights, 2 to 15 ounces.

Size, inches	1/16	5/64	3/32	7/64	1/8	9/64	5/32	11/64
84 C 1055	14¢	15¢	17¢	19¢	21¢	23¢	25¢	27¢
Size, inches	3/16	13/64	7/32	15/64	1/4	17/64	9/32	19/64	5/16
84 C 1055	29¢	31¢	33¢	35¢	37¢	39¢	41¢	43¢	45¢
Size, inches	21/64	11/32	23/64	3/4	25/64	13/32	.....
84 C 1055	49¢	52¢	55¢	58¢	62¢	66¢	.....
Size, inches	27/64	7/8	29/32	15/16	31/32	1
84 C 1055	70¢	74¢	78¢	82¢	86¢	90¢

Bit Shank Drills

With square taper shank which will fit any ordinary bit brace. Each drill is carefully tempered, tested and finished. Strictly high quality. None better made. For boring either metal or wood. State size. Shipping weights, each 1 to 9 ounces.

Size, inches	1/16	3/32	1/8	5/32	3/16
Length, inches	3 5/16	3 9/16	3 11/16	4 1/16	4 5/16
84 C 1050	9¢	10¢	12¢	14¢	16¢
Size, inches	7/32	1/4	9/32	5/16	11/32
Length, inches	4 3/4	5	5 1/16	5 1/2	5 3/4
84 C 1050	18¢	20¢	25¢	29¢	33¢
Size, inches	3/8	13/32	7/16	15/32	1/2
Length, inches	6	6 1/16	6 1/2	6 3/4	7
84 C 1050	35¢	38¢	43¢	48¢	53¢
Size, inches	17/32	9/16	5/8	11/16	3/4
Length, inches	7 1/4	7 1/2	7 1/2	7 1/2	7 1/2
84 C 1050	57¢	63¢	73¢	85¢	98¢

65¢ Set of Nine Twist Drills

Set of 9 straight shank twist drills as described above. In small roll, keeping sizes separate. Sizes, from 1/16 to 3/16. Shipping weight, per set, 3 ounces.
84 C 1054—Per set.....65¢

Genuine Cleveland Ezy-Out Screw Extractors

Drill a hole in broken screw to insert extractor. Will not damage threads. Set of three, made of steel, 1/16, 1/4, 3/8-inch diameter at point. Shipping weight, per set, 10 ounces.
84 C 1067—Per set of 3.....$1.78

Genuine Cleveland Machinists' Drill Sets

With Numbered Metal Stand

84 C 1062—Set of 29 drills with finely finished Metal Stand. With holes numbered corresponding to drills. Sizes of drills from 1/16-inch to 1/2-inch, inclusive, by 64ths. Length, 2 1/2 to 6 1/4 inches. Shipping weight, per set, 4 1/2 pounds.
Per set.....$6.45
84 C 1064—Set of 60 drills, with numbered metal stand. Sizes from No. 1 to 60 wire gauge sizes. Shipping weight, per set, 4 pounds.
Per set.....$5.95

Genuine Cleveland Bit Shank Drill Set

Set of nine strictly first quality steel twist drills for metal or wood with square shank for bit brace. One each, 1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8 inch. Complete in round screw covered wood box. Lengths, 3 1/2 to 6 1/4 inches. Shipping weight, per set, 1 1/2 pounds.
84 C 1052—Per set....$1.80

Goodell-Pratt Breast Drill

Ball Bearing. Two Speeds.
Style 6A. A fine breast drill. Double geared, giving two speeds readily changed from fast to slow. The spindle runs in a hardened steel cone bearing. Breast plate is adjustable. Improved three-jawed chuck, capacity, 0 to 1/2 inch. Will hold round shank drills accurately. Nickel plated and enamel finish. Length, 16 inches. Shipping weight, 6 pounds.
$4.50
84 C 1265.$4.50

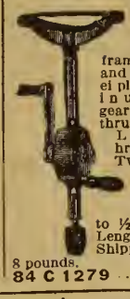
Goodell-Pratt No. 20

Japanned malleable frame. Ball bearings. Cut gears. Two speeds. Breast plate has leather top. D pattern side handle. Three-jawed chuck nickel plated, holding up to 1/2-inch round shank drills. Hardwood handles. Length, 18 inches. Shipping weight, 8 pounds.
84 C 1278.....$5.65

Special Breast Drill

Strong frame. Two speeds. Changeable without withdrawing drill from work. Gear ratio even and 3 to 1. Easily changed. Steel pinion gears carefully cut. Breast plate is adjustable. Three jaw chuck holds round shanks up to 3/8-inch. Length, 17 1/2 inches. Shipping weight, 6 1/2 pounds.
84 C 1266...$3.75

High Speed Breast Drill



Goodell-Pratt Style 279. Steel frame, crank and chuck nickel plated. Aluminum covered gear case. Ball thrust bearing. Leather breast strap. Two speeds, 7 to 1 and 2 to 1. Chuck, 3 jawed. Holds 0 to 1/2 inch drills. Length, 20 inches. Shipping weight, 8 pounds.
84 C 1279 .....$9.50

Goodell-Pratt Hand Drills

Style 53. Nickel plated steel frame, large polished hardwood hollow handle, with screw cap. Wide cut gears. Two small pinions equalize the bearings. Three-jawed chuck, capacity up to 5/32 inch. 8 fluted drill points, from 1/16 to 1/4 inches included. Length, 10 inches. Shipping weight, 2 pounds.
84 C 1290. ....$2.75

Style 329. All steel frame crank and three-jawed chuck. Nickel plated machine cut gears. Hardwood handles. Length, 11 1/2 inches. Holds up to 1/4 inch. Drills not included. Shipping weight, 3 pounds.
84 C 1305.$2.50

Style 5 1/2. One of the finest hand drills made. Double gears, two speeds and a three-jawed chuck. Capacity, 0 to 3/8 inch. An accurate tool that will give long service. Polished wood handles. Drill not included. Shipping weight, 3 pounds.
84 C 1298.$3.95

Expansion Reamer

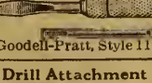
Cleveland Twist Drill Company's "Quick Set" Reamer. Strong and reliable. Sharp cutting. Fine steel blades retain their edges. Blue-black rust resisting finish. All blades always cut evenly. Shipping weights, 3/4 to 1 1/2 pounds.
84 C 1068

Size	Range Inches	Length Inches	Price Each
C	1 3/32–2 1/32	6 1/2	$3.75
D	2 1/32–2 5/32	6 3/4	3.85
E	2 3/32–2 5/32	7	4.00
F	2 5/32–2 7/32	7 3/8	4.15
G	2 5/32–1 5/16	8	4.45
H	1 5/16–1 1/16	9	4.80
I	1 1/16–1 5/16	10	5.75

Goodell-Pratt Automatic Screw Driver

Goodell-Pratt, Style 111. For right or left-hand work. Operates automatically or as a ratchet. A downward push of the handle causes the point to revolve rapidly. May be used as a solid screwdriver. Length, extended, with bit in place, 18 inches. Length, closed, with bit removed, 10 inches. Complete with three polished steel screwdriver bits. A handsome, well finished, fast working tool. Shipping weight, 1 1/2 pounds.
84 C 1400.....$2.15
(For Drill Attachment see No. 84 C 1412)

Drill Attachment



Drill chuck and 8 fluted drill points. To fit No 84 C 1400 Drill. Shipping weight, 6 ounces.
84 C 1412.....87¢

Famous "Mr. Punch" Automatic Hand Drill

Goodell-Pratt Automatic Hand Drill Number 185. One or two quick punches drill a hole. Pushing handle down rapidly revolves the drill, and a spring automatically pushes the handle back. Case made of brass, nickel plated. Length, 10 inches. Complete with eight drill points, assorted from 1/16 to 1/4 in numbered magazine handle. Easy to find the size of drill you want. Shipping weight, 1 pound.
84 C 1311.....$1.85
84 C 1313—Extra drill points. Set of 8 in wooden box. Shipping weight, per set, 4 ounces. 50

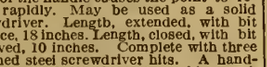
Automatic Spiral Screw Driver

Millers Falls Style 41. One spiral groove is deeper than the other to prevent wear. Adjustable right, left or stationary. Length, extended, 20 inches. Three bits, 3 inches long, two with double ends, giving five points in all. Steel with hardwood handle. Shipping weight, 27 ounces.
84 C 1402.....$2.65

Automatic Screw Driver

Goodell-Pratt Style 40. May be used as an automatic, or locked as a solid screw driver. A downward push of the handle causes the point to revolve rapidly. Length, extended, 14 inches. Three bits. Shipping weight, 1 pound.
84 C 1408.....$1.35

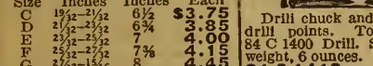
Ratchet Screw Driver



Goodell-Pratt Style 66. Ratchet right, left or rigid by turning knurled ferrule. Tempered steel blades, polished hardwood handle.

84 C 1448 Total Lgth.	Blade Lgth.	Ship. Wt.,	
4 in.	2 in.	8 oz.	$ .75
5 in.	4 in.	9 oz.	.85
8 in.	5 in.	11 oz.	.90
9 in.	6 in.	13 oz.	.95
12 in.	8 in.	16 oz.	1.05

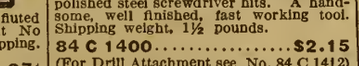
Genuine Champion Screw Driver



One of the finest made. The blade is forged from the toughest steel, fastened securely into a fluted hardwood handle. Every blade is tested to split a screw head. Ship. weights, 10 to 18 oz.

Blade, inches	3	4	6	8	10
Length, inches	7	8 3/4	11 1/2	14 1/2	17
84 C 1422	25¢	29¢	37¢	50¢	63¢

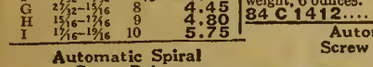
Perfect Handle Screw Driver



Drop forged steel, of one piece, with wood handle, pocketed in each side. Will stand all kinds of hard usage. Carefully tempered and tested. Shipping weights, 10 to 25 ounces.

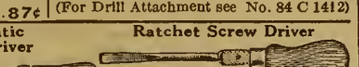
Blade, inches	4	6	8	10
Total length, inches	8 1/2	11 1/2	14 1/2	16 1/2
84 C 1416	23¢	32¢	42¢	53¢

Giant Magazine Screw Driver



For machinists, tool makers, garage men and motorists. Made of highest grade tool steel. Will not break or bend. Large blades snapped in and out. Has square shanks which allow use of wrench for extra leverage. Nickel plated and hand polished. Length, 6 inches. Shipping weight, 1 pound.
84 C 1439.....$1.60

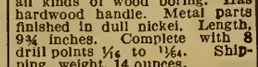
Standard Screw Driver



Hardwood Handle, steel ferrule. Forged steel blade. Shipping weights, 6 to 12 ounces.

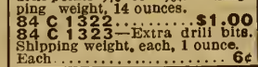
Blade, inches	4	6	8
Total length, inches	8	10 1/2	13
84 C 1430	10¢	14¢	17¢

Glass Cutter



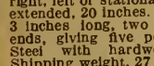
Enameled wood handle. Patent carbonized wheel. Shipping weight, 1 ounce.
84 C 2268.....10¢

Glass Cutter



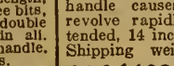
Best hardened steel disc wheel. Revolving Magazine, with 6 cutters in head. Rosewood handle, metal parts nickel plated. Shipping weight, 3 ounces.
84 C 2265.....22¢

Straight Shank Drill Chuck



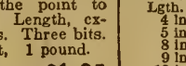
Round steel shanks and three hardened steel jaws which center accurately.
84 C 1165—Holds from 0 to 1/4. Has shank 1/2 by 2 1/2 inches. Ship. wt., 14 oz.....$1.45
84 C 1166—Holds from 0 to 3/8. Has shank 5/8 by 2 1/2 inches. Ship. wt., 20 oz.....$1.75

Post Drill Chuck for Bit Stock Drills



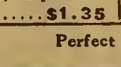
Has regular 1/2-inch straight shank to fit hlacksmith's post drills. Square milled socket takes regular bit-shank twist-drills, which are kept from falling by friction spring. Shipping weight, 1 pound.
84 C 1171....70¢

Lakeside Quality Tool Handle



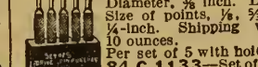
7 1/2-inch rosewood finish handle, with strong screw chuck and 10 tools. One each, gimlet, saw, gouge, chisel, file, wide and narrow screwdriver bit, feather punch, brad awl and wood reamer. Average length of tools, 4 inches. Ship. weight, 22 oz.
84 C 1334.....$1.75

Tool Set



Polished hardwood, rosewood finish handle. Contains 10 tools. Length, 5 3/4 inches. Ship. wt., 9 oz.
84 C 1330.....$1.15

Star Hand Drill for Brick or Cement



Made of high-grade steel, carefully tempered, sharpened ready for use. Used with a hammer. Length 12 inches. State size wanted. Shipping weights, 9 to 18 ounces.

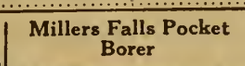
Size	1/2 in.	5/8 in.	3/4 in.
84 C 1070	30¢	38¢	45¢

Universal Glaziers' Diamond

Enables anyone to cut glass perfectly. Diamond one end, steel guide wheel other end. Length, 3 1/2 inches. State size. Shipping weight, 5 ounces.

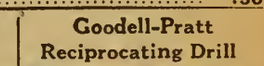
Size	Cuts	84 C 2272
9	Single	$4.20
10	Single	4.65
12	Double	5.15
13	Double	6.50

Millers Falls Pocket Borer



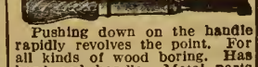
Nickel plated Magazine handle contains 3 drills, 1/16 to 1/4 inch, and a screw driver bit. May be compressed to fit the pocket. Length, open, 7 1/4 inches; closed, 5 inches. Handy, serviceable and well made. Shipping weight, 1 pound.
84 C 1325.....$2.65

Goodell-Pratt Reciprocating Drill



For boring, iron, brass, and wood. Polished hardwood head, ball bearing. Three-jawed chuck. Capacity up to 1/4-inch. Drill bits not included. (See 84 C 1060 for drills.) A fine drill for rapid work. Shipping weight, 2 pounds.
84 C 1328.....$2.15

Goodell-Pratt Automatic Drill

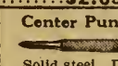


Pushing down on the handle rapidly revolves the point. For all kinds of wood boring. Has hardwood handle. Metal parts finished in dull nickel. Length, 9 3/4 inches. Complete with 8 drill points 1/16 to 1/4. Shipping weight, 14 ounces.
84 C 1322.....$1.00
84 C 1323—Extra drill bits. Shipping weight, each, 1 ounce. Each.....6¢

Drive Pin Punch Set

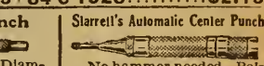
84 C 1134—Set of 5 Steel Punches in wood holder. Knurled bodies. Diameter, 3/8 inch. Length, 4 inches. Size of points, 1/8, 5/32, 3/16, 7/32, and 1/4-inch. Shipping weight, per set, 10 ounces.
Per set of 5 with holder.....75¢
84 C 1133—Set of 4 steel punches. Tempered. Plain octagon bodies. Length, 6 inches. Size, 3/32, 1/8, 5/32, 3/16. (Without holder). Ship. weight, per set, 1 pound.
Per set of 4 without holder.....42¢

Center Punch



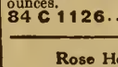
Solid steel. Diameter, 3/8 inch. Length, 4 inches. Shipping weight, 4 ounces.
84 C 1126..10¢

Starrett's Automatic Center Punch



No hammer needed. Polished and tempered steel. Length, 5 inches. Diameter, 1/2 inch. Shipping weight, 5 ounces.
84 C 1130.....$1.90

Rose Head Countersink

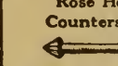


Rose head. Tool steel. For wood or soft metal. Countersinks holes up to 3/4 inch. Length, about 3 1/2 inches. Shipping weight, 3 ounces.
84 C 1093.....15¢

Nail Sets

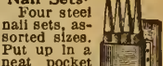
Four steel nail sets, assorted sizes. Put up in a neat pocket case with cover. Length, 4 inches. Shipping weight, 10 ounces.
84 C 1120—Per set of 4 in case.....68¢
84 C 1112 — One nail set only.....10¢

Fluted Taper Reamers



For reaming holes in metal. Milled tool steel. Length, about 5 inches. Shipping weight, 4 ounces.
84 C 1076—Tapers from 1/8 to 1/2 inch..60¢
84 C 1077—Tapers 1/4 to 7/8 inch. Shipping weight, 8 ounces..$1.20

Steel Screw Driver Bits



84 C 1108— Extra quality steel. Length, 4 3/4 inches. Shipping weight, 6 ounces..30¢
84 C 1109—Standard grade steel. Length, 4 1/4 inches. Shipping weight, 4 ounces..8¢

Star Family Tool Set
Standard Quality Tools

$5.45 A Set

A very useful tool set at an extremely reasonable price. Contains 18 every-day useful tools of standard quality, the most necessary assortment for use about the house and farm. With this set you can do all your odd jobs of carpenter work and easily save its cost in a short time.
Set contains one each of the following: Steel shingling hatchet; 1/2-inch cold chisel; iron block plane; 8-inch bit brace; 1-inch chisel; 26-inch hand saw; 8-inch monkey wrench; 6-inch combination plier; steel try and mitre square; 6-inch blade screwdriver; 2-foot rule; 3 gimlet bits and 3 auger bits, 1/4, 1/2, 3/4 inch; carpenters' pencil. Packed in a plain box. Shipping weight, complete set, 17 1/2 pounds.
484 C 2768—Complete set.....$5.45

Handy Man's Tool Box
Lakeside Quality Tools

A set for the man who needs a few of the best tools for the many jobs around the house or farm. Set consists 1 each of the following; Lakeside half hatchet; 24-inch Lakeside hand saw; two-foot rule; 10-inch plain brace; 3 bits, sizes, 5/16, 1/2, 3/4 inch; 6-inch combination pliers; 4-inch screw driver; 10-inch Stillson pipe wrench; Lakeside block plane; 2 pounds of assorted tacks and screws; 3/4-inch Lakeside chisel; 6-inch try-square; 5 1/2-inch Lakeside slim taper file; 8-inch Lakeside mill file. Packed in a neat plain box complete with hinges, hasp and screws. Can be made into a tool box. Shipping weight, complete set, 25 pounds.
484 C 2769—Complete set.$8.75

High Grade Machinists' Equipment

Accurate Micrometer

Forged steel frame. Decimal equivalents for fractions of inches. Highly polished. Graduated to read 0 to 1 inch by 1000ths. Length, closed, 4 inches. Shipping weight, 8 ounces.

$4.35

84 C 2546.......$4.35

Simplex Self Reading Micrometer

$10.50

Forged steel frame. Decimal equivalents for fractions of inches. Has ratchet stop and lock nut. Tool is based upon the established design of standard micrometers, but with the advantage of self-reading numerals instead of the old type of graduation. The exact reading is at all times in plain view. Prevents mistakes in reading lines and in computing measurements. Highest quality. Guaranteed not to vary more than one ten-thousandths part of an inch. Highly polished finish. Length, closed 4 inches. Shipping weight, 10 ounces.

84 C 2547........................$10.50

Feeler Gauge

For comparing or testing thicknesses. Various combinations may be made. Each leaf marked by thousandths. Twenty-four leaves, .002 to .025 inch. Length, 2¾ inches. Shipping weight, 2 ounces.

$2.05

84 C 2574......$2.05

84 C 2575—Six leaves .002, .003, .004, .005, .010, .015-inch. Length, 2¼ inches. Shipping weight, 1 ounce........................48¢

Starrett's No. 40 Screw Pitch Gauge

Starrett's No. 40. Twenty-two pitches. Shipping weight, 3 ounces. Sizes 9 to 40.

84 C 2572........98¢

84 C 2573—Starrett's No. 4. Twenty-four pitches. Sizes, 4 to 30. Shipping weight, 5 ounces..................$1.20

Starrett's No. 57 Universal Surface Gauge

$2.75

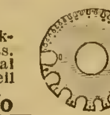
Heavy base, grooved through bottom and end, adapting it for use on or against circular work as well as flat surfaces. Shipping weights, 3½ to 4½ pounds.

84 C 2567

Starrett's No.	Base	Spindle	Price
57A	3 -in.	9-in.	$2.75
57B	3 -in.	9-12-in.	3.20
57C	3¾-in.	12-in.	3.30

Wire Gauge—American or Brown & Sharp

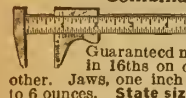
Starrett's No. 281



For gauging diameter or thickness of copper wire and sheets. Gauges from 0 to 36, with decimal equivalents. Accurate and well finished. Shipping weight, 4 oz.

84 C 2591..........$2.60

Combination Caliper



Inside and outside caliper and depth gauge. Spring nickel silver. Guaranteed not to rust. Scale graduated in 16ths on one side and 32nds on the other. Jaws, one inch deep. Shipping weights, 3 to 6 ounces. **State size wanted.**

Length	4 in.	5 in.	6 in.
84 C 2549	$2.10	$2.20	$2.40

Starrett's No. 300 Stiff Steel Rules

Graduated in 8ths, 16ths, 32nds and 64ths. Shipping weights, 3 to 8 ounces. **State size wanted.**

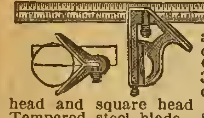
Length, inches	3	4	6	9	12
Width, inches	9/16	5/8	¾	7/8	1
84 C 2550	47¢	57¢	72¢	$1.08	$1.32

Starrett's No. 303 Stiff Steel Rules

Graduated in 8ths, 16ths, 32nds and 64ths, and in 32nds of an inch on opposite sides of each end. Shipping weights, 3 to 8 ounces. **State size wanted.**

Length	6 in.	9 in.	12 in.
Width	¾ in.	7/8 in.	1 in.
84 C 2551	72¢	$1.08	$1.32

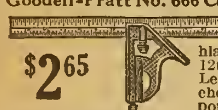
Starrett's No. 11 Combination Squares



A combination set of try square, depth and mortise gauge, mitre centering gauge, and rule. Graduated in 8ths, 16ths, 32nds and 64ths. Interchangeable, centering head and square head with level and scriber. Tempered steel blade. Shipping weights, 1 to 2 pounds. **State size wanted.**

Length of blade	6 inches	9 inches	12 inches
84 C 2522	$1.90	$2.40	$2.90

Goodell-Pratt No. 666 Combination Square

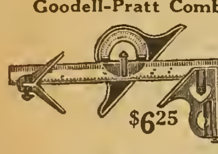


$2.65

High-grade tool steel. Tempered blade, graduated in 8ths, 12ths, 32nds and 48ths. Length of blade, 12 inches. Shipping weight, 1½ pounds.

84 C 1924........................$2.65

Goodell-Pratt Combination Square

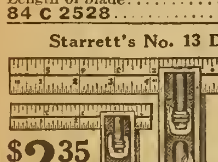


$6.25

An adjustable try square, level, mitre rule, marking gauge, scriber and depth, height and center gauge combined. Tempered steel blade, graduated in 8ths, 16ths, 32nds and 64ths. Interchangeable iron heads. Protractor with level. Shipping weight, 2½ pounds. **State size wanted.**

Length of blade	12 inches	18 inches
84 C 2528	$6.25	$7.20

Starrett's No. 13 Double Squares



$2.35

High grade tool steel. Sliding blades. Always accurate. Level in stock. 6-inch size has extra blade giving hexagon and octagon angles. Other sizes have only one blade for use as square, depth gauge, etc. Shipping weights, 1 to 2 pounds.

Length	6 in.	9 in.	12 in.
84 C 2526	$2.35	$2.95	$3.90

Lakeside Combination Pliers

TRADE MARK

15¢

Four Tools in One

Drop forged steel, heavily nickel-plated. Combines pliers, wire cutter, wrench and screwdriver. Will hold on flat, square or round surface. Slip joint adjustable to grip ⅛ to ¾-inch pipe in the 4 and 6-inch sizes, and from ¼ to 1¼-inch pipe in the 8 and 10-inch size. **State size wanted.**

Number	Size	Ship. wt.	Price
84 C 2200	5 in.	6 oz.	32¢
	6 in.	10 oz.	33¢
	8 in.	12 oz.	46¢
	10 in.	18 oz.	53¢

84 C 2201 — Natural black finish, milled jaws. Length, 6 inches. Shipping weight, 10 ounces................15¢

Side Cutting Slip-Joint Pliers

45¢

Extra fine quality. Heavy drop-forged steel, heavily nickeled. Very strong. Curved handle offers an easy and positive grip. Special hardened and tempered cutters. Will grip pipe ⅛ to ¾ inch in diameter. 6 inches long. Shipping weight, 10 ounces.

84 C 2202........................45¢

Side Cutting Pliers

30¢

Stamped steel, nickel finish, with strong wire cutter. Flat nose jaws. Shipping weight, 8 ounces.

Length	5 inches	6 inches
84 C 2185	30¢	42¢

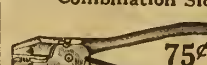
Slip Joint Combination Pliers

85¢

Heavy, drop-forged steel, fully nickel-plated. Slip joint. Hold any surface. Combines pliers, wrench, wire cutter and screwdriver. Length, 7 inches. Shipping weight, 12 ounces.

84 C 2212........................85¢

Combination Side Cutting Pliers



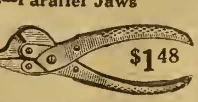
75¢

Heavy forged steel tempered and tested. Flat nose jaws, grooved for pipe. Three wire cutters. Polished jaws. Will grip pipe up to ⅝ inches in diameter. Shipping weights, 12 and 16 ounces.

84 C 2203—6 inch....................75¢

84 C 2204—7 inch....................85¢

Cutting Pliers—Parallel Jaws

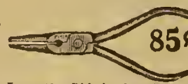


$1.48

Fully nickeled, crucible steel. Bernard's parallel jaws. Flat nose with highly tempered wire cutter. Shipping weight, 8 to 18 ounces.

Length	5 inches	6 inches	7 inches
84 C 2210	$1.48	$1.90	$2.25

Long Chain Nose Pliers

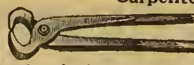


85¢

Drop-forged steel, highly tempered. Lap joint and side cutter. Strong oval jaws, neatly polished. A highly dependable tool. Length, 5½ inches. Shipping weight, 6 ounces.

84 C 2165........................85¢

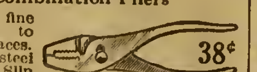
Carpenter's Pincers



Forged steel. Extra quality. Polished jaws. Combines nail puller, screwdriver and tack claw. Shipping weights, 10 to 22 ounces.

Length	6 in.	8 in.	10 in.	12 in.
84 C 2235	35¢	45¢	55¢	65¢

Offset Combination Pliers

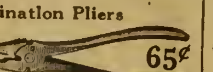


38¢

Offset pliers of fine quality, adapted to reach difficult places. High-grade forged steel nickel-plated. Slip joint adjustable for pipe ⅛ to ¾ inches in diameter. Length, 6 inches. Shipping weight, 10 ounces.

84 C 2211........................38¢

Heavy Combination Pliers



65¢

Forged tool steel. Wide polished jaws with lap joint. Extra strong. Cuts wire. Shipping weights, 1 and 1½ pounds.

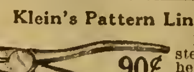
Length	8 inches	10 inches
84 C 2206	65¢	83¢

Combination Gas Pliers

Heavy drop forged steel with slip joint and comfortable handle. Wire cutter. Polished jaws, grooved for gripping pipe or wire from ¼ to 2¼ inches in diameter. A good, everyday tool. Length, 9 inches. Shipping weight, 1 pound.

84 C 2226........................80¢

Klein's Pattern Linemen's Pliers



90¢

High quality forged steel. Lap joint, beveled head. Nicely finished and correctly tempered. Large opening for cutting insulated wire. Shipping weight, 16 to 20 ounces.

Length	6 inches	8 inches
84 C 2180	90¢	$1.00

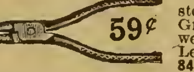
Diagonal Side Cutting Pliers

98¢

Forged tool steel, well finished. Jaws are hand honed. Used by jewelers, opticians, electricians and motorists. Shipping weight, 6 and 10 ounces. **State size wanted.**

Length	5 inches	6 inches
84 C 2186	98¢	$1.15

Round Nose Pliers



59¢

High-grade forged steel, polished. Easy Grip handle. Shipping weight, 5 ounces.

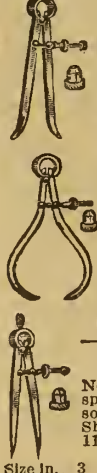
Length	5 in.	6 in.
84 C 2161	59¢	75¢

"Lakeside" Forged Steel Fence Pliers

Drop-forged steel, nicely finished. Combines staple puller, double wire cutter, double hammer, wire splicer, pincers and wrench. Length, 10 inches. Shipping weight, 2½ pounds.

84 C 2231........................$1.20

Starrett's High Grade Calipers and Dividers



Inside Calipers

Starrett's Yankee Number 73. High-grade caliper with solid or spring nut. Shipping weight 4 to 10 ounces. **State size wanted.**

Spring Nut

Size, inches	3	4	5	6	8	10
84 C 2495	80¢	90¢	95¢	$1.00	$1.15	$1.45

Solid Nut

Size, inches	3	4	5	6	8	10
84 C 2496	65¢	70¢	80¢	85¢	$1.00	$1.30

Outside Calipers

Starrett's Yankee Number 79. With solid or spring nut. Shipping weight, 4 to 8 ounces. **State size.**

Solid Nut

Size, inches	3	4	5	6	8	10
84 C 2490	65¢	70¢	80¢	85¢	$1.00	$1.30

Spring Nut

Size, inches	3	4	5	6	8	10
84 C 2491	80¢	90¢	95¢	$1.00	$1.15	$1.45

Spring Dividers

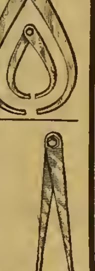
Starrett's Yankee No. 83. High-grade spring dividers with solid or spring nut. Shipping weights, 4 to 11 ounces.

Solid Nut

Size in.	3	4	5	6	8	10
84C2480	65¢	70¢	80¢	85¢	$1.00	$1.30

Spring Nut

Size, in	3	4	5	6	8	10
84C2481	85¢	90¢	95¢	1.00	1.15	1.45



Outside Calipers—Firm Joint

Starrett's Number 26. Polished high-grade steel with improved screw joint. Adjustable tension. A splendid tool and extra value. Shipping weights, 4 ounces to 2 pounds. **State size wanted.**

Size, in.	4	6	8	10	12
84 C 2497	48¢	64¢	80¢	88¢	96¢

Size, in.	14	16	20	24
84 C 2497	$1.44	$1.68	$2.40	$2.88

Inside Calipers—Firm Joint

Starrett's Number 27. Polished high-grade steel with improved screw joint. Adjustable tension. A dependable tool, thoroughly typical of Starrett quality. Shipping weight, 4 to 24 ounces. **State size wanted.**

Size, in.	4	6	8	10	12
84 C 2498	48¢	64¢	80¢	88¢	96¢

Size, in.	14	16	20	24
84 C 2498	$1.44	$1.68	$2.40	$2.88

Standard Extension Dividers

Polished steel, with extension leg and set screw. Well made and accurate. Pencil may be used in place of the leg. Shipping weights, 6 and 8 ounces.

84 C 2286

6 inch.........85¢

8 inch.........98¢

Standard Wing Dividers

Polished steel. Thumb screw and small round-nut for fine adjustment. A tool of quality in keeping with the finest equipment. Shipping weights, 8 to 14 ounces. **State size.**

84 C 2284

Size, inches	6	8	10
Each...	45¢	55¢	75¢

Bench Tool Chest

Well made and finished. Polished Red Gum or Hazel wood, paneled in mahogany. Strong brass lock, drawer pulls and hinges. Closing of cover automatically locks the drawers.

484 C 2802—Outside, 24 inches long; 14½ inches wide, 13 inches deep. Receptacle under lid, 21x11½x3. First drawer, 20x10½x1. Second drawer, 20x10½x1½. Third drawer, 20x10½x2½. Shipping weight, 46 pounds..............$9.25

484 C 2804—Outside, 30 inches long, 14½ inches wide, 13 inches deep. Receptacle under lid, 27x11½x3. First drawer, 26x10x1. Second drawer, 26x10x1½. Third drawer, 26x10x2½. Shipping weight, 52 pounds. $10.95

Machinists' Tool Chest

$7.75

High-grade. Either solid Quarter sawed Oak or black leatherette covering. When open the front folds underneath. Strong lock with two keys. Nickel-plated metal corners and strong carrying handle. Polished brass knobs on drawers. Each drawer has felt lining.

484 C 2806—Polished oak. Size outside, 9¼ inches deep, 12¼ inches high, 20 inches long. Eight drawers; largest inside, 2¾x6½x18; smallest, ⅞x6½x8¼. Shipping weight, 23 pounds........................$11.25

484 C 2807—Same case as 484 C 2806 except covered with black leatherette........................$11.75

484 C 2808—Polished oak. Size outside, 8 inches deep, 10⅝ inches high, 16½ inches long. Largest drawer inside, 3x5⅝x14⅝; smallest 1x5⅝x6⅝. Six Drawers. Shipping weight, 15 pounds....................$7.75

484 C 2809—Same case as 484 C 2808 except covered with black leatherette........................$8.50

Snips and Cutters Tool Sets

Handy Pocket Snip

A new and popular size. High quality forged steel, with blades of extra tempered steel for cutting sheet metal or wire. Attractively finished. Length, 7 inches; 2-inch cutters. Shipping weight, 12 ounces.

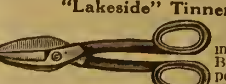
84 C 2363........................65¢

Drop-Forged Tinners' Shears

Solid drop-forged steel, carefully tempered, length 12 inches. Cutter, 3 inches. Shipping weight, 2 pounds.

84 C 2365........................90¢

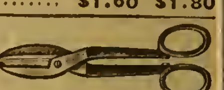
"Lakeside" Tinners' Snips



For cutting sheet metal and wire rope. Blades laid with tempered cutlery steel. Handles are forged steel. Japanned. Shipping weight, 2 and 3 pounds. **State length.**

Length	12 inch	14 inch.
Length, cutter	3 inch	3½ inch
84 C 2362	$1.60	$1.80

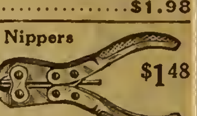
Circular Cutting Shears



Made of best forged steel. Especially designed for cutting sheet metal or wire on either curved or straight lines. Shank of blade is straight, points round and sharp. Back is beveled to allow free passage of material. Length, 12½ inches; 3-inch cutters. Shipping weight, 2 pounds.

84 C 2370........................$1.98

Compound End-Cut Nippers

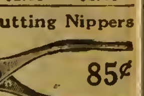


$1.48

Bernard nippers. Double action. Crucible steel, finely nickeled. Open throat jaws; comfortable handle. **State size wanted.**

Length	4 in.	5 in.	6 in.	7 in.
Weight	8 oz.	12 oz.	16 oz.	20 oz.
84 C 2192	$1.48	$1.98	$2.35	$2.80

End Cutting Nippers

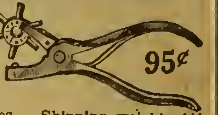


85¢

Made from forged steel. Highly tempered strong cutting jaws, which will cut wire, nails, etc. Shipping weight, 10 and 20 ounces. **State size wanted**

Length	6 inches	7 inches
84 C 2188	85¢	$1.15

Four and Six-Tube Spring Punches



95¢

Steel tubes, ranging in size from 3/32 to 3/16 inches in diameter. For cutting round holes in leather, rubber, cardboard or heavy cloth. Forged steel handle. Length, 8 and 9 inches. Shipping weight, 1½ pounds.

84 C 2242—With 4 tubes..............70¢

84 C 2243—With 6 tubes..............95¢

11-Piece Tool Roll $1.98

The useful tools for which you find most need around the home or farm. All high-grade and practical. Three forged wrenches, openings ½ to 5/16-inch; one each; 8-inch monkey wrench; ball pein hammer; all-steel screwdriver with square shank and ½-inch blade; 8-inch flatmill file; 6-inch slip joint plier; ⅝-inch cold chisel; ⅛-inch point hand punch. Weight, 5½ pounds. Set complete in neat canvas roll. Shipping weight, per set, 6 pounds.

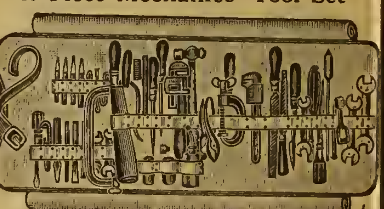
84 C 2756—Per set................$1.98

19 Handy Tools $4.50

This set is used extensively, for repairing machinery, trucks, tractors and autos. Set contains all good tools selected for their strength and durability. Consists of 4 double end wrenches, 3/16 to ⅞ inch and one each of the following; alligator wrench, 9-inch auto wrench, 3-inch blade screwdriver, 5-inch blade screwdriver; 9½-inch all steel screwdriver, 6-inch combination plier, 8-inch round file and handle, ⅜-inch center punch, ⅜-inch regular punch, ½-inch cold chisel, ⅛-inch cape chisel, 5/16-inch cotter pin extractor, 10-ounce ball pein hammer, bearing scraper, box of assorted cotter pins. Shipping weight, per set, 7 pounds.

84 C 2759—Per set................$4.50

40-Piece Mechanics' Tool Set



For any kind of repairing. Highest grade tools, suitable for the most careful work. Set consists of 40 tools, as follows:

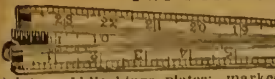
5 drop forged double end wrenches, 3/16 to 7/8; 10-inch pipe wrench; 9-inch monkey wrench; 5-inch bicycle wrench; spark plug socket wrench, about ⅞-inch; 6-inch combination pliers; 6-inch sidecutting pliers; 4 screwdrivers (1 3-inch blade, 1 square shank 5-inch blade, 1 all steel 9-inch, 1 offset drop forged 5-inch); 4 files (8-inch round, 8-inch square, 8-inch flat, 4-inch flat); 3/16-inch cape chisel; ⅛-inch and ⅜-inch cold chisels; 10-ounce ball pein hammer; 5 punches (center, ⅛-inch drift, ⅛ and 3/32-inch solid, and cotter pin); hack saw frame and blade; 2½-inch iron clamp; spark plug brush; cotter pin extractor; box of cotter pins; bearing scraper; soldering iron; soldering paste; soldering torch; solder wire; 2 sizes copper wire; 3 sheets emery cloth. All in strong canvas roll. Shipping weight, per set, 16 pounds.

84 C 2762—Per set..............$12.95

High grade Vises that are built for service. Page 609

Rules—Levels—Carpenter's Supplies—Gauges—Squares

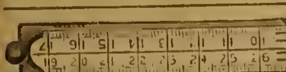
Two-Foot Rule



Factory No. 68. Two foot, 4-fold, 1 inch wide rounded joints, middle hinge plates; marked in 8ths and 16ths. Shipping weight, 4 ounces. **84 C 1800—10¢**

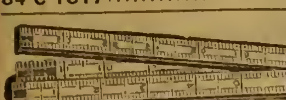
84 C 1801—Factory No. 63. Same as above except with square joint edge. Shipping weight, 4 ounces....**34¢**

Three-Foot Rule



Width, 1 inch. Length, 3 feet. Spaced 16ths and 8ths. inch. Shipping weight, 4 ounces.
84 C 1817....**50¢**

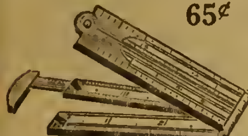
Boxwood Rule



Factory, No. 62. Width 1 inch. Length, 2 feet, 4-fold double brass bound. Marked in 8ths, 10ths, 12ths, 16ths, of inch. Shipping weight, 5 ounces. **84 C 1804**....**68¢**

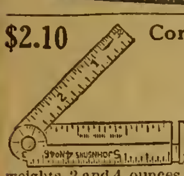
84 C 1805—Factory No. 62½. Same as above except ¾ inch wide....**68¢**

65¢ Caliper Rule



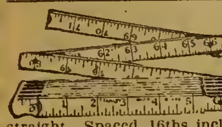
Boxwood Caliper Rule. Length, 1 foot, arch joints, 4 fold. Spaced in 8ths, 10ths, 12ths 16ths. Width, ⅞ inch. Shipping weight, 4 ounces.
84 C 1822..**65¢**

$2.10 Combination Caliper Rule



Caliper, protractor, try square and hook rule, 16ths and 32nds. Protractor vernier to one-half degrees. Rust-resisting white metal. In neat pocket case. Shipping weights, 2 and 4 ounces.
84 C 1830—Length, 6 inches....**$2.10**
84 C 1831—Length, 12 inches....**3.20**

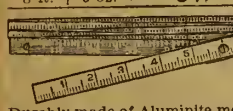
Zig-Zag Rule



Hardwood, ⅝-inch wide, metal tips. Yellow or white. Steel spring joints hold rule straight. Spaced 16ths inch. State size.

Length	Ship. Weight	84 C 1840 Yellow	84 C 1841 White
4 ft.	5 oz.	24¢	28¢
6 ft.	7 oz.	39¢	43¢
8 ft.	9 oz.	54¢	58¢

Rustless Aluminite Rule



For the man who works out of doors. Durably made of Aluminite metal with brass joints and guaranteed not to rust. State size wanted. Shipping weight, 5 and 7 ounces.
84 C 1842—4-feet long....**$1.10**
84 C 1842—6-feet long....**1.60**

Stanley Extension Rule

95¢

Hard Maple, 1 inch wide. Spaced in 8ths. Brass trimmed. Sections secured by set screw. State size.

Size	Ship. wt.	84 C 1845
2 to 4 feet	1 pound	$ .95
4 to 8 feet	2 pounds	1.25
5 to 10 feet	3 pounds	1.55

Standard Log Rule

Second growth hickory, shaped by hand. Will retain flexibility. Length 48 inches. Square head. To scale logs 8 to 20 feet long. Figures are burned in. Has 6-inch handle. Shipping weights, 1 and 2 pounds.
484 C 1848—Scribner's scale....**$2.50**
484 C 1849—Doyle scale....**2.50**

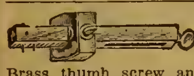
Hickory Board Rule

Size, 3 tier, 3 feet long. Extra heavy brazed head. To measure, 8, 10, 18 feet on one side, and 12, 14, 16 feet on the other side. Shipping weight, 1 pound.
84 C 1852....**$2.30**

Marking Gauge

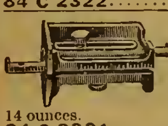
With brass screw and face. Length, 8¼ inches. Ship. wt., 8 ounces.
84 C 2325....**64¢**
84 C 2324—Beechwood. Length, 8½ inches. Shipping weight, 8 ounces....**12¢**

Rosewood Marking Gauge



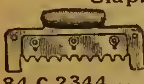
Selected rosewood. Brass thumb screw and shoe. Oval bar steel points. A very high-grade gauge which will give accurate and lasting service. Length, 6 inches. Shipping weight, 10 ounces.
84 C 2322....**$1.15**

Stanley Butt Gauge



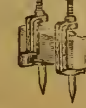
Stanley's No. 94. For door hanging and mortising. Nickel plated with steel markers. Length, 3 inches. Shipping weight, 14 ounces.
84 C 2331....**$1.35**

Clapboard Marker



For quickly and accurately marking clapboards or siding. Steel with wood handle. Length, 8½ inches. Shipping weight, 18 ounces.
84 C 2344....**54¢**

Trammel Points



Fit stick from ½ to 1¼ inches wide. Nickel plated with steel points. Will hold pencil. Shipping weight, per pair, 8 ounces.
84 C 2300—Per pair....**95¢**

Cherry Adjustable Level

A high-grade level, of polished cherry. Brass arch top plate, two side views; both ends are brass tipped. Proved level glasses. Adjustable. State size.

Length	24 inches	26 inches	28 inches	30 inches
Shipping weight	3 pounds	3¼ pounds	3½ pounds	4 pounds
84 C 2064	$1.75	$1.85	$2.05	$2.25

Solid Cherry Level

Brass top plate, two side views. Non-adjustable. Length, 28 inches. Shipping weight, 3 pounds.
84 C 2060....**$1.10**

Mason's Wood Level

Mahogany finish, light and easy to handle, with double plumb brass top plate, low cut side views; adjustable level and plumb, selected glasses. Length, 42 inches. Shipping weight, 3 pounds.
84 C 2082....**$2.50**

Iron Bench Level

With double plumb, proved level glasses, milled faces, Japanned body. Light, strong, accurate.

Length	Ship. Weight	84 C 2096
6 inches	1 pound	$1.60
18 inches	3½ pounds	3.25
24 inches	4½ pounds	3.95

Iron Level Sights

To attach to iron levels for distance levelling. Improved Level Sights. Shipping weight, per pair, 6 ounces.
84 C 2125—Per pair...**90¢**

Three-Ply Cherry Level

Made of three pieces of seasoned cherry, glued together, will not warp. Brass arch top plate, two side views. Adjustable. Both ends are brass tipped. State size.

Length	26 in.	28 in.	30 in.
Shipping weight	3 lbs.	3½ lbs.	4 lbs.
84 C 2062	$2.15	$2.25	$2.35

Aluminum Level

Accurate, light and strong. Cast aluminum, with faces and edges accurately milled. Grooved sides. Will not rust or warp. Sensitive level protected with round aluminum disc. Level and plumbs adjustable.

Length	18 in.	24 in.	28 in.
Shipping wt.	2¼ lbs.	3¼ lbs.	3½ lbs.
84 C 2092	$3.60	$4.05	$4.55

Nickeled Pocket Level

Carefully and accurately made. In neat hexagon tube of nickeled brass with closed ends. Shipping weight, 3 ounces.
84 C 2118—Length, 2½ inches....**54¢**
84 C 2118—Length, 3½ inches....**79¢**

Wood Level Sights

To attach to wood levels for distance leveling. Shipping weight, per pair, 6 ounces.
84 C 2124—Per pair.**90¢**

Lakeside Steel Square

$1.55

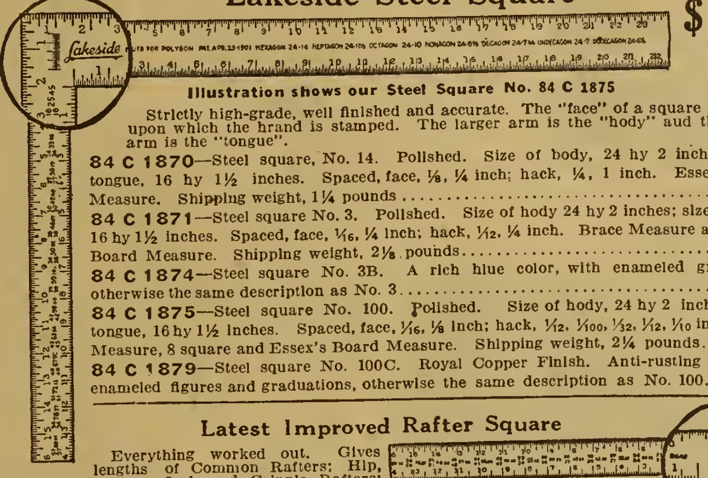


Illustration shows our Steel Square No. 84 C 1875

Strictly high-grade, well finished and accurate. The "face" of a square is the side upon which the brand is stamped. The larger arm is the "body" and the shorter arm is the "tongue".

84 C 1870—Steel square, No. 14. Polished. Size of body, 24 by 2 inches; size of tongue, 16 by 1½ inches. Spaced, face, ⅛, ¼ inch; back, ¼, 1 inch. Essex's Board Measure. Shipping weight, 1¼ pounds....**89¢**

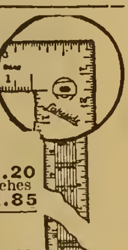
84 C 1871—Steel square No. 3. Polished. Size of body 24 by 2 inches; size of tongue, 16 by 1½ inches. Spaced, face, ⅟₁₆, ¼ inch; back, ⅟₁₂, ¼ inch. Brace Measure and Essex's Board Measure. Shipping weight, 2⅛ pounds....**$1.35**

84 C 1874—Steel square No. 3B. A rich blue color, with enameled graduations, otherwise the same description as No. 3....**$1.60**

84 C 1875—Steel square No. 100. Polished. Size of body, 24 by 2 inches, size of tongue, 16 by 1½ inches. Spaced, face, ⅟₁₆, ⅛ inch; back, ⅟₁₂, ⅟₁₀₀, ⅟₃₂, ⅟₁₂, ⅟₁₀ inch. Brace Measure, 8 square and Essex's Board Measure. Shipping weight, 2¼ pounds...**$1.55**

84 C 1879—Steel square No. 100C. Royal Copper Finish. Anti-rusting with white enameled figures and graduations, otherwise the same description as No. 100...**$1.95**

Latest Improved Rafter Square



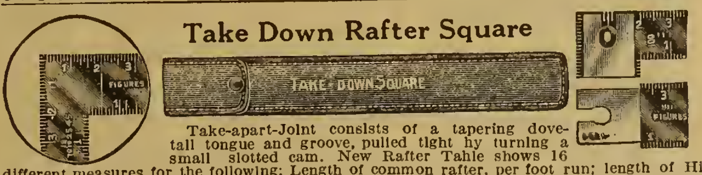
Everything worked out. Gives lengths of Common Rafters; Hip, Valley, Jack and Cripple Rafters; also all top, bottom and side cuts. Has a 1¾-inch tongue to conform to the substitution of 3 by 1¾ scantling for the 2 by 4. Patented table for Hip, Valley, Jack and Cripple Rafters and for Common Rafters. Table for the common polygon, and standard brace measure. Complete directions. Body, 24 by 2 inches. Tongue, 16 by 1¾ inches. Shipping weight, 2½ pounds.

84 C 1895—No. 500R Polished Steel. Spaced ⅛, ⅟₁₂, ⅟₁₆, ⅟₃₂ inches....**$2.20**
84 C 1894—No. 500CR Royal Copper Finish. Spaced ⅛, ⅟₁₀, ⅟₁₂, ⅟₁₆, ⅟₃₂, ⅟₁₀₀ inches....**$2.85**

Stanley Rafter Square

No. R100B Blued Finish. Has Rafter, Brace, Octagon, Essex Board and 100ths measure Marked ⅟₁₆, ⅛, ⅟₁₆, ⅛, ⅟₁₂, ⅟₃₂, ⅟₁₂, ⅟₁₀ inches. Body, 24 by 2 inches. Tongue, 16 by 1½ inches. Shipping weight, 2 pounds.
84 C 1896....**$2.70**

Take Down Rafter Square



$3.20

Take-apart-Joint consists of a tapering dovetail tongue and groove, pulled tight by turning a small slotted cam. New Rafter Table shows 16 different measures for the following: Length of common rafter, per foot run; length of Hip or Valley rafter, per foot run; difference in length of Jacks, 16-inch centers; difference in length of Jacks, 2-foot centers, side cut of Jack; side cut of Hip or Valley rafter; side cut of sheathing in Valley or Hip. Body is 24 by 2 inches. Tongue, 16 by 1½ inches. Spaced 8ths, 10ths, 12ths, 6ths, 32nds. Has Essex Board Measure, Octagon Scale, Brace Measure and Improved Rafter Scale. Royal Copper finish; white enamel markings. In waterproof case. Shipping weight, 3 pounds.
84 C 1898....**$3.20**

Try and Mitre Square

Polished hardwood handle, brass trimmings. Graduated steel blade. State size. Shipping weights, 6 to 14 ounces.

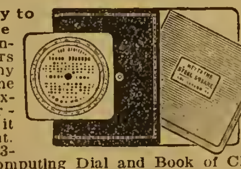
Size	6 in.	7½ in.	9 in.
84 C 1916	42¢	48¢	55¢

Sliding T Bevel

For gauging bevels and angles on wood-work. Steel blade, hardwood handle, brass mounted. Recessed screw. State size. Shipping weights, 6 and 12 ounces.

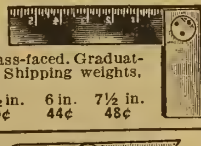
Size	6 inches	10 inches
84 C 1926	35¢	40¢

Perfected Key to Steel Square



This outfit enables amateurs to perform any work with the square; even experienced carpenters find it very convenient. Consists of a 3-inch Safety Computing Dial and Book of Clear Instructions contained in a handsome Leather Pocket Case. Shipping weight, 4 ounces.
84 C 1902....**98¢**

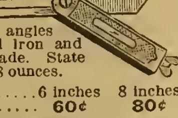
Blued Try Square



Hardwood handle, brass-faced. Graduated blade. State size. Shipping weights, 8 to 12 ounces.

Size	4½ in.	6 in.	7½ in.
84 C 1910	39¢	44¢	48¢

Improved T Bevel



For gauging bevels and angles on wood-work. Nickeled iron and steel. Lies flat. Best grade. State size. Ship. wts., 10 and 18 ounces.

Size	6 inches	8 inches
84 C 1930	60¢	80¢

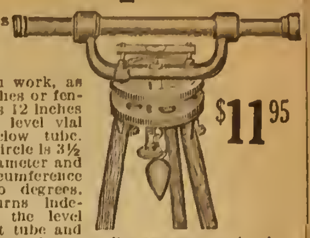
Starrett's No. 110 Stair and Rafter Gauge

Used in connection with any carpenters' steel square and may be adjusted to any pitch or angle. For cutting in rafters, braces, stairs, etc. L-shaped steel, ⅞x⅝x⅛ inch. Nickel plated. Square not included.

84 C 1905—Size, 18 inches. Shipping weight, 18 ounces....**$1.55**

84 C 1906—Size, 28 inches. Shipping weight, 24 ounces....**$2.10**

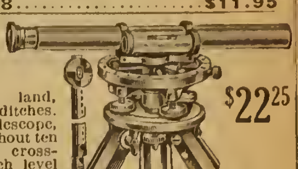
Starrett's Farm Level



$11.95

For rough work, as running ditches or fences. Tube is 12 inches long, 2-inch level vial mounted below tube. Horizontal circle is 3½ inches in diameter and has a circumference divided into degrees. This are turns independent of the level or the sight tube and may be clamped. Leveling screws, extension steel tripod and plumb bob included. In wood case. Shipping weight, 14 pounds.
484 C 1958....**$11.95**

Drainage Farm Level with Rod



$22.25

For farm land, drainage ditches. 10¼-inch telescope, magnifying about ten times, with cross-hairs, 2½-inch level in tube. Has 4-inch horizontal circle graduated to degrees with index arm. With plumb bob, key for center, wood leveling rod, strong hardwood tripod. Leveling rod is 5 feet long, extending to 9½ feet, divided into ½-inches. In wood case. Shipping weight, 10 pounds.
84 C 1951....**$22.25**

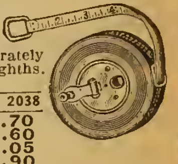
Surveyors' Steel Tapes

Polished blue steel ribbon, correctly tempered. Width, ¼ inch. Thickness, .015 inch. Length, 100 feet, graduated in feet, first foot in 10ths. Numbered with plain figures on a raised extra thickness of steel

84 C 2030—With steel reel and hardwood handle as shown. Shipping weight, 2½ pounds....**$7.90**

84 C 2031—Without reel. Shipping weight, 1½ pounds....**$5.35**

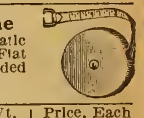
Steel Tape



Steel Tape, ⅜-inch wide, in leather case. Nickel plated trimmings. Accurately marked in feet, inches and eighths. State size.

Size	Ship. Wt.	84 C 2038
25 ft.	10 oz.	$3.70
50 ft.	14 oz.	4.60
75 ft.	20 oz.	6.05
100 ft.	24 oz.	7.90

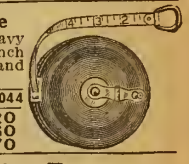
Steel Pocket Tape Line



With spring and stop. Automatic release by pressing button. Flat metal case, nickel plated. Divided into inches and 16ths.
84 C 2050

Length	Width	Ship. Wt.	Price, Each
3 feet	¼ inch	3 ounces	39¢
6 feet	¼ inch	4 ounces	68¢

Surveyors' Linen Tape



Stitched leather case. Heavy linen corded tape ⅝ inch wide. Marked in feet and inches and ½ inches.

Size	Ship. Wt.	84 C 2044
50 ft.	10 oz.	$2.20
75 ft.	12 oz.	2.60
100 ft.	14 oz.	2.70

Enameled CaseTape

Brass bound enameled case. Oiled linen tape, ½ inch wide. Marked in feet and inches and ¼ inch. State size.

Lgth. Feet	Ship. Weight	84 C 2042
50	8 ounces	44¢
75	10 ounces	73¢
100	12 ounces	88¢

Brass Plumb Bob

Polished solid brass. Steel point. Shipping weights, ½ and 2 pounds.

Weight	Length	84 C 2134
8 ounces	4⅞ inches	$1.48
20 ounces	6½ inches	2.80

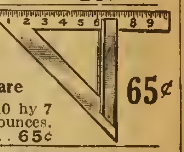
Hexagon Plumb Bob

Solid steel, nickel plated. Sharp point. Brass top screw. Shipping weights, 1 and 1½ pounds.
84 C 2142 — Length, 3½ inches. Weight, 8 ounces....**60¢**
84 C 2143 — Length, 3¾ inches. Weight, 12 ounces....**70¢**

Iron Plumb Bob

Smooth nickel plated iron. Sharp point. Length, 2½ inches. Shipping weight, 8 ounces.
84 C 2135....**25¢**

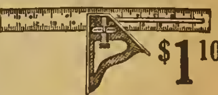
Steel Combination Square



65¢

All steel, nickel plated, 10 by 7 inches. Shipping weight, 12 ounces.
84 C 1920....**65¢**

Stanley Try and Mitre Square



$1.10

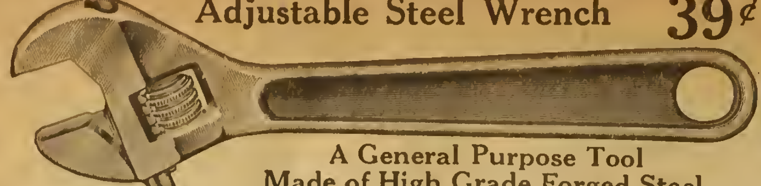
Stanley's No. 21. Adjustable iron head, steel blade. White nickel finish. Length, 12 inches. Graduated in 8ths, 16ths, and 32nds inches. Shipping weight, 1¼ pounds.
84 C 1903....**$1.10**

Tool Box

An exceptionally well made light-weight tool box. Ideal for carpenters and masons. Made of selected hardwood, with panel sides, nicely stained and varnished, brass lock, leather handle with rings for shoulder strap, metal clasp, metal corners. Saw rack to hold four saws. Partitioned tray. Space in bottom. Outside measurements; length, 34¼ inches; height, 17 inches; width, 6 inches. Inside dimensions of tray; Length, 32½ inches; height, 1¾ inches; width, 4¼ inches. Will take a 28-inch saw and large steel square. Shipping weight, 32 pounds.
184 C 2818....**$11.95**

Turn to Page 589 for a Lakeside Plane

Adjustable Steel Wrench 39¢



A General Purpose Tool Made of High Grade Forged Steel.

Excellent for the autoist, machinist or for general use. Possesses all the advantages of a solid S wrench, as well as the conveniences of an adjustable wrench. Gets into tight places and other spots that cannot be reached with the regular style wrenches. Made of high grade forged steel. Angle head, thin jaws, fits hexagon and square nuts. Adjusted by a knurled screw in frame.

Length	6 inches	8 inches	10 inches	12 inches
Opens	¾ inch	5/16 inch	1⅛ inches	1 3/16 inches
Shipping weight	¼ pound	⅝ pound	1¼ pounds	2¼ pounds
84 C 7458	39¢	49¢	63¢	88¢

Lakeside Stillson Wrench 50¢

TRADE MARK

Stillson pipe wrenches have been popular for many years, with mechanics, steam-fitters, plumbers, and automobilists. A standard wrench made of forged steel with tempered steel jaws. Always grips the pipe firmly. Releases its hold instantly.

Length, in.	6	8	10	14	18	24	36
Takes pipe, in.	½	¾	1	1½	2	2½	3
Ship. wt., lbs.	½	¾	1½	4	5	9	20
84C7480	50¢	58¢	70¢	85¢	$1.00	$2.00	$3.55

Extra Parts for Stillson Wrenches

Shipping weights, 2 ounces to 3 pounds.

For Wrench, size	6	8	10	14	18	24	36
84 C 7481—Sliding Jaw	22¢	24¢	26¢	35¢	55¢	70¢	90¢
84 C 7482—Frame	12¢	14¢	16¢	19¢	25¢	32¢	45¢
84 C 7483—Nut	4¢	6¢	7¢	9¢	11¢	18¢	25¢

Agricultural Monkey Wrench

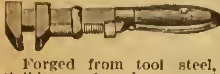
27¢

Adjustable wrench with wrought steel bar, head and screw, wood handle.

84 C 7440—State size wanted.

Size	Shipping Weight	Each
6 inches	1 pound	27¢
8 inches	1½ pounds	37¢
10 inches	2 pounds	42¢
12 inches	2½ pounds	54¢
15 inches	3½ pounds	75¢

Genuine Coe's Knife Handle Wrench



Forged from tool steel, casehardened jaws. Solid one-piece bar extends through to end of handle. Varnished hardwood grips riveted to handle with heavy iron rivets. A thoroughly reliable knife handle wrench. Made for hard service, and will stand a great deal of abuse. State size wanted.

Size	8 in.	10 in.	12 in.
Shipping weight	1¾ lbs.	2¼ lbs.	3½ lbs.
84 C 7443	54¢	74¢	95¢
Size	15 in.	18 in.	21 in.
Shipping weight	5½ lbs.	8 lbs.	10 lbs.
84 C 7443	$1.32	$1.75	$2.05

Adjustable S Wrench

50¢

Easily and quickly adjusted. Fits hexagon and square nuts. Malleable iron, with sliding jaw and steel screw. Nicely finished and useful in many places inaccessible to the ordinary wrench.

84 C 7456—State size wanted.

Trade Size	Opens About	Shipping Weight	Each
6 inches	¾ inch	¾ pound	$ .50
8 inches	1 inch	1 pound	.70
10 inches	1⅜ inches	2 pounds	.85
12 inches	1⅝ inches	3¼ pounds	1.25

Engineers' Double End Wrench

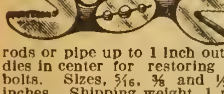
6¢

Drop forged steel, black finish.

84 C 7510—State size wanted.

Size	Length Inches	Openings Inches	Shipping Weight	Each
21	3¼	5/16 and 13/32	4 ounces	6¢
23	4	13/32 and ½	5 ounces	9¢
25	4⅞	½ and 19/32	6 ounces	10¢
27	5⅞	19/32 and 11/16	7 ounces	12¢
29	6⅞	11/16 and 25/32	8 ounces	15¢
31	7¾	25/32 and ⅞	12 ounces	18¢
33	8¾	⅞ and 31/32	1 pound	21¢
35	9¾	31/32 and 1 1/16	1¼ pounds	27¢
37	11⅞	1/16 and 1¼	2¼ pounds	39¢
39	13½	1¼ and 1 7/16	2¾ pounds	58¢

Wrench and Thread Cleaner

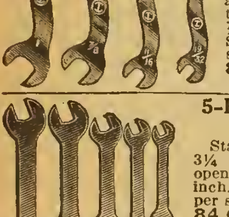


32¢

Forged steel. Will grip nuts, rods or pipe up to 1 inch outside diameter. Three dies in center for restoring damaged threads on bolts. Sizes, 5/16, ⅜ and ½ inch. Length, 8¼ inches. Shipping weight, 1 pound.

84 C 7504 .... 32¢

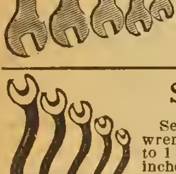
Thin S Wrench Set



Set of 5 double end wrenches. Made of steel, with thin bodies, easy to handle and light to carry in tool kit. Take nuts 7/16 inch to 1 inch. Shipping weight, per set, 2 pounds.

84 C 7520—Set of 5 ..... 45¢

5-Piece Wrench Set

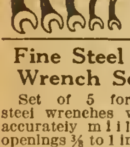


Stamped steel. Length, 3¼ to 8⅝ inches, with openings ¼ inch to 1 inch. Shipping weight, per set, 1¾ pounds.

84 C 7512—Extra finish. Per set 57¢

84 C 7513—Semi-finished, mottled. Per set .... 47¢

S Wrench Set



Set of 5 drop forged steel wrenches. Openings, from ⅜ to 1 inch. Length, 6¼ to 10¼ inches. Shipping weight, per set, 3 pounds.

84 C 7516—Set of 5 .. 95¢

Fine Steel S Wrench Set

Set of 5 forged steel wrenches with accurately milled openings ⅜ to 1 inch. Lengths, from 6¼ to 10¼ inches. Polished tempered jaws. In handy canvas roll. Shipping weight, per set, 3 pounds.

84 C 7515—Set of 5 .. $1.48

7-Piece Socket Wrench Set

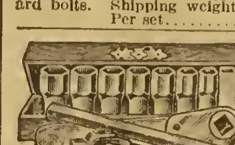
Malleable iron. Black finish. Reversible ratchet wrench, length, 14 inches.

With 6 sockets fitting hexagon or square nuts for ½, ⅝, ¾-inch U. S. Standard bolts. Shipping weight, per set, 5 pounds.

84 C 7470—Per Set $1.20

84 C 7471—With 10 sockets fitting hexagon or square nuts for ¼, ⅜, ½, ⅝, ¾-inch U. S. Standard bolts. Shipping weight, per set, 6 pounds. Per set $1.95

11-Piece Socket Wrench Set



Made of hardened pressed steel. Set consists of 8 heavy reinforced sockets, white nickel finish; 8-inch extension bar; forged universal joint; and 9-inch reversible ratchet wrench. Reaches difficult places easily. 7 hexagon sockets, openings 17/32, 20/32, 21/32, 23/32, 25/32, 27/32, 29/32 inches, and one square socket, opening, 17/32 inch. In neat oak case. Shipping weight, per set, 3 pounds.

84 C 7467—Per set $2.45

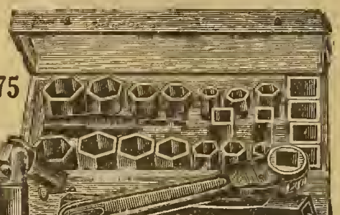
17-Piece Mossberg Style No. 7 Wrench Set

In neat wood box. With 15 pressed steel sockets from 13/32 to 1 3/32 inch openings. One offset socket wrench, handle, 10 inches long. One take down T socket wrench, handle, 10 inches high. Shipping weight, per set, 6 pounds.

84 C 7465—Per set $2.95

24-Piece Socket Wrench Set

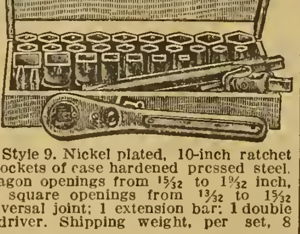
$2.75



Especially good for all styles of farm machinery, autos and general shop work. Heavy malleable iron, black finish. Set includes 1 ratchet handle, 9 inches long; 1 universal joint to reach cramped difficult places at any angle; one 8-inch extension; 1 screw driver bit; 14 hexagon sockets openings from 17/32 to 1 1/32 inch; six square sockets openings from 13/32 to 1 1/32 inch. In neat wood box. Shipping weight, per set, 10 pounds.

84 C 7468—Per set $2.75

30-Piece Socket Wrench Set in Wood Case



Mossberg Style 9. Nickel plated, 10-inch ratchet handle. 26 sockets of case hardened pressed steel. 19 sizes hexagon openings from 15/32 to 1 9/32 inch, and 7 sizes square openings from 13/32 to 1 5/32 inches; 1 universal joint; 1 extension bar; 1 double end screw driver. Shipping weight, per set, 8 pounds.

84 C 7466—Per set $5.50

General Purpose Wrench Set

"Pleasant to work with" nickel finish on sockets and ratchet handle, as well as on other parts of set. Set consists of 14 hexagon sockets, openings, 13/32 to 1 5/32; 6 square sockets, openings 17/32 to 1 1/32; one 9-inch ratchet handle; one 8-inch cold-rolled steel extension bar; one drop-forged universal joint; 5 double end S wrenches, openings, 7/16 to 1 inch; 6-inch slip-joint pliers. All above tools are nickel finished. Also contains 10-inch Crescent Pattern wrench; 6-inch cotter pin extractor; extra heavy screw driver with 5-inch blade. Packed in neat solid oak box. Shipping weight, per set, 12 pounds.

84 C 7469—Per set $6.60

Pipe Stock and Dies

Armstrong pattern. Two-piece tempered steel dies, adjustable to cut light or deep threads. Dies easily ground sharp.

Size 2R Pipe Stock. Length, 36 inches. With 5 dies, cutting pipe threads, ¼, ⅜, ½, ¾, 1-inch, right-hand. Shipping weight, per set, 15 pounds.

484 C 7416—Per set $6.60

84 C 7417—Extra Pipe Dies, ⅛, ¼, ⅜, ½, ¾, 1-inch. Shipping weight, 12 ounces. Ea. $1.15

84 C 7418—Extra Bolt Dies for threading rods. Sizes, ¼, 5/1, ⅜, 7/16, ½, 9/16, ⅝, ¾, ⅞, 1 inch. State size. Shipping weight, 1 to 2 pounds. Each $1.45

84 C 7419—Extra Guides for bolt dies. Shipping weight, 4 to 10 ounces. State size. Each... 30¢

84 C 7420—Size 2½ R Pipe Stock. Length, 38 inches. With 4 double-end dies, cutting pipe threads, ½, ¾, 1 and 1¼ inches, right-hand. Shipping weight, per set, 18⅛ pounds. Per set $7.95

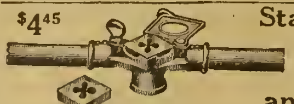
84 C 7421—Extra Dies. Sizes above. State size. Shipping weight, 1½ pounds $1.45

484 C 7423—Size 3R Pipe Stock. Length, 54 inches. With 3 dies, cutting threads, 1¼, 1½ and 2 inches, right-hand. Shipping weight, per set, 26 pounds. Per set $10.35

84 C 7424—Extra Dies. Size above. Shipping weight, 2¾ pounds. State size. Each... $2.70

Standard Pipe Stock and Dies

$4.45



For threading wrought pipe. Malleable iron stock, with hollow steel handles. Dies quickly and easily changed. Cuts clean true threads. No. 2 size has leader screw. Pipe taps not included.

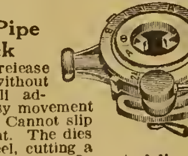
Shipping weights, 8, 12, 14½, 15¾, 24 pounds

Size	Cuts Pipe, Inches	Size Dies, In.	484C7400
0	⅛, ¼, ⅜, ½	2x2x½	$4.45
1	¼, ⅜, ½, ¾, 1	2½x2½x¾	5.95
1½	¾, 1, 1¼	3x3x¾	5.40
1¾	1, 1¼, 1½	3x3x¾	5.70
2	1¼, 1½, 2	4x4x⅞	8.35

Extra Dies and Guides. State Pipe Size. Shipping weights, Dies, 1 to 2½ pounds; Guides, 4 to 10 ounces.

Fitting Stock No.	84 C 7401 Dies, Each	84 C 7402 Guides, Each
0	$ .80	16¢
1	.90	20¢
1½	1.10	32¢
1¾	1.15	35¢
2	1.40	40¢

Oster Bull Dog Pipe Die Stock



$7.25

Quick lever release from threads without turning back all adjustments by easy movement of small levers. Cannot slip out of adjustment. The dies are tempered steel, cutting a smooth, accurate thread. One set of dies cuts two sizes. Can be set to cut under or over size. Guides adjusted to pipe by lever. Pipe taps not included. State size wanted.

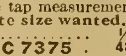
Size	For Pipe, Inches	Ship. Wt.	484C7412
101	⅛, ¼, ⅜, ½, ¾	12 pounds	$7.25
102	¼, ⅜, ½, ¾, 1, 1¼	20 pounds	9.90
103	1, 1¼, 1½, 2	28 pounds	12.90
104	½, ¾, 1, 1¼, 1½, 2	30 pounds	14.80
105	1½, 2, 2½, 3	65 pounds	23.75

Pipe Taps and Reamers

Pipe Tap With standard pipe threads. Right hand. Best grade tool steel. Made in sizes to correspond with pipe measurements, that is, a ¾ tap will thread a fitting or opening taking pipe measuring ¾ inch inside diameter. Shipping weights, 4 ounces to 4¼ pounds. State size wanted.

Size	⅛	¼	⅜	½	¾
84 C 7374	35¢	44¢	68¢	73¢	$1.00
Size	1	1¼	1½	2	..
84 C 7374	$1.60	$1.85	$2.45	$3.65	..

Pipe Reamers



For reaming out pipe openings before threading. Best tool steel. Made in sizes to correspond with pipe tap measurements. Ship. wts. 3 oz. to 4¼ lbs. State size wanted.

Size	⅛	¼	⅜	½	¾
84 C 7375	48¢	62¢	83¢	98¢	$1.48
Size	1	1¼	1½	2	....
84 C 7375	$2.28	$3.15	$4.15	$6.30	....

End Burring Reamer

Fine quality steel. For reaming pipe. Bit brace shank.

84 C 7378—For pipe ½ to 1 inch. Tapers from 1 3/16 inches to ½ inch at point. Length of flute, 1⅛ inches. Shipping weight, 8 ounces .... 90¢

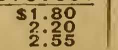
84 C 7379—For pipe ¼ to 1¼ inches. Tapers from 1 7/16 inches to ¼ inch at point. Length of flute, 2⅛ inches. Ship. weight, 10 ounces $1.25

Steel Wire Flue Brush

For cleaning boiler flues. Length, 8 inches. Note: Give the outside diameter of tube (not inside diameter). Shipping weights, 6 to 16 ounces.

Size	1¾	2	2¼	2½	3
84 C 7560	23¢	27¢	30¢	35¢	40¢

Perfection Flue Cleaner



Spring steel blades. Automatically clings tight to inside of boiler flue, quickly cutting away soot and scale. Self sharpening. Give outside diameter of tube (not inside). Shipping weights, 1 to 9 pounds.

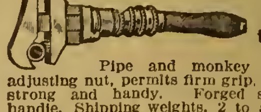
Size	84 C 7564	Size	84 C 7564
1¾	$1.25	2½	$1.80
2	1.45	3	2.20
2¼	1.60	3½	2.55

Genuine Trimo Pipe Wrench 73¢

Heavy drop forged steel handle and jaws. Patent guard prevents nut from turning. Grips pipe firmly and is quickly released.

Size Open	Takes Pipe	Ship. Wt.	84 C 7485
6 in.	½ inch	¾ pound	$ .73
8 in.	¾ inch	1¼ pounds	.80
10 in.	1 inch	2 pounds	.90
14 in.	1½ inches	4 pounds	1.30
18 in.	2 inches	5½ pounds	1.80
24 in.	2½ inches	9 pounds	2.65

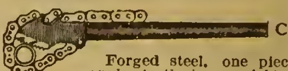
Genuine Bemis & Call Combination Wrench



Pipe and monkey wrench. Long adjusting nut, permits firm grip. Perfectly rigid, strong and handy. Forged steel with wood handle. Shipping weights, 2 to 5 pounds. State size wanted.

Size	Takes Pipe	84 C 7450
10 inches	½ to 1 inch	$1.65
12 inches	½ to 1¼ inches	2.00
15 inches	½ to 2 inches	2.85

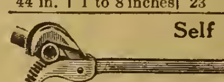
Brock's Chain Pipe Wrench



Forged steel, one piece, milled angle teeth jaw, quickly and firmly grips pipe. Flat link steel chain.

Length	Takes Pipe	Ship. Wt.	84 C 7492
20 in.	¼ to 2 inches	6 lbs.	$1.85
27 in.	¼ to 3 inches	9¼ lbs.	2.75
37 in.	¾ to 6 inches	19½ lbs.	3.85
44 in.	1 to 8 inches	23 lbs.	4.90

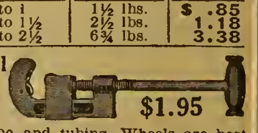
Self Adjusting Pipe Wrench



A simple practical tool. Grips tightly any pipe within its capacity without adjustment. Black finish.

Trade Size	Takes Pipe, In.	Ship. Wt.	84 C 7490
10 in.	⅛ to 1	1½ lbs.	$ .85
14 in.	⅜ to 1½	2½ lbs.	1.18
24 in.	½ to 2½	6¾ lbs.	3.38

Three Wheel Pipe Cutter



$1.95

Three wheels for quickly and easily cutting pipe and tubing. Wheels are best tool steel. Body and handle, malleable and wrought iron. Shipping weights, 3½, 5¾ and 9½ pounds.

84 C 7540—Cuts pipe ⅛ to 1 inches .. $1.95

84 C 7543—Extra cutters for above .. .12

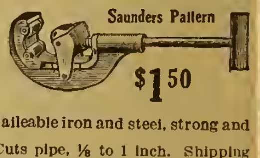
84 C 7541—Cuts pipe ½ to 2 inches .. 2.70

84 C 7544—Extra cutters for above .. .15

84 C 7542—Cuts pipe 1½ to 3 inches 4.50

84 C 7545—Extra cutters for above .. .20

One-Wheel Roller Pipe Cutter



$1.50

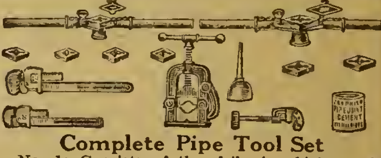
One tool steel disc to cut pipe and two rollers to smooth the edges. Made of malleable iron and steel, strong and substantial.

84 C 7546—Cuts pipe, ⅛ to 1 inch. Shipping weight, 6 pounds $1.50

84 C 7548—Extra wheel for above .... .14

84 C 7547—Cuts pipe, ¾ to 2 inches. Shipping weight, 7½ pounds $2.50

84 C 7549—Extra wheel for above .... .18



Complete Pipe Tool Set

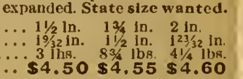
No. 1: Consists of the following high grade tools: Pipe Stock and dies No. 1; pipe Cutter for ⅛ to 1-inch pipe; pipe vise up to 2-inch pipe; 2 Stillson Wrenches, 10-inch and 14-inch; copper plated steel oil can; can of graphite pipe joint cement. Shipping weight, per set, 35 pounds.

484 C 7435—Per set $12.95

Set No. 2. Consists of the following high grade tools: 2 pipe stocks with dies, No. 1 and No. 2; pipe cutter for ½ to 2-inch pipe; pipe vise up to 3½-inch pipe; 2 Stillson Wrenches, 14-in. and 18-in.; copper plated steel oil can; can graphite pipe joint cement. Shipping weight, per set, 75 pounds.

184 C 7436—Per set $22.40

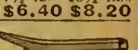
Roller Tube Expander



High grade steel. Small diameter is inside diameter of smallest tube the expander will enter. Size is diameter fully expanded. State size wanted.

Size	1½ in.	1¾ in.	2 in.
Small Diameter	1 9/32 in.	1½ in.	1 23/32 in.
Shipping weight	3 lbs.	8¾ lbs.	4¼ lbs.
84 C 7550	$4.50	$4.55	$4.60
Size	2¼ in.	2½ in.	3 in.
Small Diameter	1 15/16 in.	2 5/32 in.	2⅝ in.
Shipping weight	6 lbs.	7½ lbs	10½ lbs.
84 C 7550	$5.00	$6.40	$8.20

Boiler Makers' Beading Tool



For beading ends of boiler flues after they are expanded. Forged steel, tempered, oil finish. Shipping weight, 1½ pounds.

84 C 7556 .... 50¢

Lighten your work with one of our Hoists. Page 595

Hoists, Jacks and Wire Rope

Card's Diamond Screw Plate

With stock, round adjustable dies, plug taps and adjustable tap wrench. Complete in finished hardwood box.

84 C 7340—Set "A". Stock, length 5 inches. Tap wrench, length 5 inches. Has 6 dies and 6 taps, cutting machine screw sizes as follows: 4-36, 6-32, 8-32, 10-24, 12-24, 14-20. Shipping weight, 1 pound. Per set **$5.45**

84 C 7342—Set "R". Stock, length 7 inches Tap wrench, length 7½ inches. Has 6 dies and 6 taps, cutting U. S. Standard threads as follows: ⅛-40, 5/32-32, 3/16-24, 7/32-24, ¼-20, 5/16-18. Shipping weight, 1¾ pounds. Per set ... **$6.55**

84 C 7344—Set "S". Stock, length 7 inches. Tap wrench, length 7½ inches. Has 5 dies and 5 taps, cutting U. S. Standard threads as follows: 1/16-72, ⅛-40, 3/16-24, ¼-20, 5/16-18. Shipping weight, per set 1½ pounds. Per set.... **$6.25**

Champion Easy Screw Plate

In black leatherette rolls so they may be carried conveniently in auto tool boxes for roadside repairs. Furnished with stock, adjustable dies which make a perfect thread at a single cut, plug taps and tap wrench.

84 C 7320—No. 115. Stock, length 14 inches. S. A. E. (A. L. A. M. threads). Cuts 7 sizes as follows: ¼-28, 5/16-24, ⅜-24, 7/16-20, ½-20, 9/16-18, ⅝-18. Shipping weight, per set, 7 pounds. Per set **$13.60**

84 C 7321—No. 120. Especially adapted to Ford Model T Cars. Stock, length, 14 inches. Combination of S. A. E., U. S. S., and Machine Screw threads. Cuts 16 threads as follows: 5/32, 19/64, 19/32, 13/64, 15/64 machine screw sizes and 7/32-32, ¼-20, 5/16-18, ⅜-16, 7/16-14 U. S. Standard, and 5/16-24, ⅜-24, 13/32-16, 7/16-20, ½-20 S. A. E., and ⅛-inch pipe. Shipping weight, per set, 9 pounds. Per set **$13.95**

Champion Ordnance Screw Plate

Cuts 16 Sizes Combination U. S. Std. and S. A. E. Set

With round two-piece adjustable Dies, Guides, Taper Taps, Stock 23 inches long and tap wrench 15 inches long. The stock clamps around the die making each one as solid as if it were one piece, yet it has all the adjustments of a two-piece die. Cutting 16 sizes as follows, ¼-28, 5/16-24, ⅜-24, 7/16-20, ½-20, 9/16-18, ⅝-18, ¾-16, S. A. E. and ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13, 9/16-12, ⅝-11, ¾-10, U. S. S. In neat hardwood case. Shipping weight, per set 19 pounds.

484 C 7399—Per set **$31.75**

Double Pump Stock

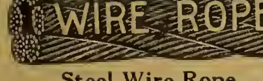
Has one die, ⅜x14 thread, and one die 7/16x12 thread. Both 1/32-inch over size to make perfect threads on unfinished rods in one cut. Shipping weight, 2½ pounds.

84 C 7432 .... **$2.95**

84 C 7433—Extra dies for double pump stock. Shipping weight, each, 4 ounces.

Size ⅜x14. Each **$1.15**
Size 7/16x12. Each **1.25**

Wire Rope and Fittings



Steel Wire Rope

Standard Steel Wire Hoisting Rope. Six strands of nineteen wires each, laid around a hemp center. Breaking strain is about four times safe load.

Size, inches	5/16	⅜	½	⅝	¾
Safe load, tons	½	¾	1½	2½	3½
Shipping weight, per foot, pounds	¼	¼	⅖	⅖	1
484 C 6450—Per ft.	6¢	7¢	8¢	10½¢	14½¢

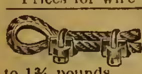
Pliable Iron Wire Rope

For inside use

Size, inches	¼	⅜	½
Shipping weight, per foot, pounds	¼	⅖	½
484 C 6452—Per foot	5½¢	6½¢	8¢

Prices for wire rope subject to market changes.

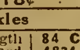
Wire Rope Fasteners



Steel yoke with malleable block. Painted. Thimble not included. Shipping weights, ⅛ to 1¾ pounds.

For rope, size	¼ in.	⅜ in.	½ in.	⅞ in.
84 C 6454—Each	3¢	4¢	6¢	8¢
For rope size	¾-in.	⅞-in.	1-in.	....
84 C 6454—Each	11¢	17¢	20¢	....

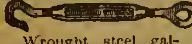
Wire Rope Thimble



For any kind of rope. Wrought steel. Galvanized. Shipping weights, 1 to 13 ounces.

For rope, size	¼-in.	⅜-in.	½-in.	⅝-in.
84 C 6455	3¢	5¢	7¢	10¢
For rope, size	¾-in.	⅞-in.	1-in.	....
84 C 6455	12¢	15¢	18¢	.

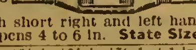
Hook and Eye Turn Buckles



Wrought steel galvanized to prevent rust. Opens 3 to 4½ inches. **State Size.** Shipping weights, 1 to 5½ pounds.

Diam. Threads	Length Closed	84 C 4834
¼ in.	8½ in.	$ .40
5/16 in.	9⅛ in.	.50
⅜ in.	10⅝ in.	.60
½ in.	13⅜ in.	.85
⅝ in.	18½ in.	1.20
¾ in.	20¼ in.	1.60

Heavy Turn Buckles



Wrought steel. With short right and left hand threaded stub ends. Opens 4 to 6 in. **State Size.**

Diam. Rod	⅜ in.	½ in.	⅝ in.	¾ in.	⅞ in.	1 in.
Length in., closed	16½	17	17	17½	18	18½
Ship.wt., lbs	1	1½	2	3	4½	6
84 C 4832	30¢	35¢	40¢	50¢	60¢	70¢

U. S. Standard Thread

Champion Easy Screw Plate

Makes a perfect screw with a single cut. The dies are adjustable by means of a taper head screw with a taper nut, making them perfectly rigid and solid. Dies and taps are of special tool steel, finely tempered. Taper taps. Champion Adjustable Tap Wrench, with a square socket to fit the shank of each size tap; holds tap firmly and always in the center. Material and workmanship are of the very best. Complete set in a handsome wood box.

484 C 7301—No. 1B. One stock, length, 16 inches. Cuts 5 sizes as follows: ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13, U. S. Standard threads. Shipping weight, per set, 7⅞ pounds. Per set .. **$8.75**

484 C 7302—No. 1½ B. One stock, length, 16 inches. Cuts 5 sizes as follows: ¼-20, 5/16-18, ⅜-16, ½-13, ⅝-11, U. S. Standard threads. Shipping weight, per set, 8 pounds. Per set **$9.30**

484 C 7304—No. 2B. Two stocks, length 15½ inches and 23 inches. Cuts 5 sizes as follows: ¼-20, ⅜-16, ½-13, ⅝-11, ¾-10, U. S. Standard threads. Ship. wt., per set, 14 pounds. Set. **$11.85**

484 C 7305—No. 5B. Two stocks, length, 16 and 23 inches. Cuts 7 sizes as follows: ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13, ⅝-11, ¾-10, U. S. Standard threads. Shipping weight, per set, 16 pounds. Per set **$13.85**

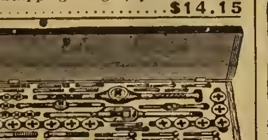
484 C 7306—No. 7B. Two stocks, length, 16 inches and 29 inches. Cuts 9 sizes as follows: ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13, ⅝-11, ¾-10, ⅞-9, 1 inch-8. U. S. Standard threads. Shipping weight, per set, 19 pounds. Per set **$20.60**

484 C 7307—No. 9B. Two stocks, length 16¼ and 29 inches. Cuts 10 sizes as follows: ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13, 9/16-12, ⅝-11, ¾-10, ⅞-9, 1 inch-8 U. S. Standard threads. Shipping weight, per set, 20 pounds. Per set **$21.95**

Easy Combination Auto and Repair Shop Screw Plate

484 C 7308—No. 11. Has one stock, length, 15½ inches and one adjustable tap wrench. With 10 dies and taps cutting both U. S. Standard threads and S. A. E. Automobile Standard threads. Cuts 5 sizes U. S. Standard: ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13 threads. Also 5 sizes S. A. E.: ¼-28, 5/16-24, ⅜-24, 7/16-20, ½-20 threads. Complete in hardwood box. Shipping weight, per set, 10½ pounds. Per set **$14.15**

Diamond Automobile Screw Plate



Set No. 5. Covers a wide assortment of machine screws, U. S. Standard, and S. A. E. Standard sizes. Has 23 dies and 23 taps, 2 stocks, and 2 tap wrenches. Cuts 2-56, 3-48, 4-36, 6-32, 8-32, 10-24, 12-24, 14-20, 16-18, 18-18, machine screw sizes; 3/16-24, ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13, U. S. Standard threads; ¼-28, 5/16-24, ⅜-24, 7/16-20, ½-20, 9/16-18 and ⅝-18, S. A. E. Standard threads. Complete in hardwood case. Shipping weight, per set 10 pounds.

484 C 7335—Per set **$29.90**

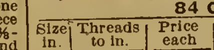
Blacksmiths' Stocks and Dies

Our blacksmiths' stocks and dies are made by one of the oldest and best manufacturers in the country. The stocks are all full polished, cleanly finished, and each set is packed complete in a box. The dies and taps are made from a high-grade special steel, carefully hardened and tempered.

Please Note:—We can furnish these stocks and dies in sizes, threads and assortments only as listed.

Article Number	No. Dies in Set	No. Taps in Set	Cuts to Inch	Threads to Inch Right Hand	Factory No.	Shipping Weight	Price Per Set
84 C 7350	3	4	5/16 to ⅛	18, 24, 32	55	1½ lbs.	$2.90
84 C 7351	4	4	5/16 to ⅛	16, 20, 24, 32	53	1½ lbs.	3.70
84 C 7352	3	6	½ to ⅛	16, 20, 26	41	3 lbs.	4.75
84 C 7353	3	6	¾ to 3/16	12, 14, 16	41C	3 lbs.	5.10
84 C 7354	3	6	⅝ to 3/16	12, 14, 16	37A	4 lbs.	5.75
84 C 7355	3	6	⅝ to ¼	11, 12, 16	37C	4 lbs.	5.35
84 C 7356	4	4	¾ to ¼	10, 12, 14, 16	32B	5 lbs.	6.25
84 C 7357	3	3	¾ to 5/16	10, 12, 16	34	5 lbs.	5.48
84 C 7358	3	3	1 to ⅜	8, 10, 12	23A	7½ lbs.	6.80
84 C 7359	4	6	¾ to 5/16	10, 12, 14, 18	60	5 lbs.	7.40
84 C 7360	4	4	1 to ½	8, 9, 10, 11	19B	10 lbs.	10.15

Blacksmiths' Taper Taps

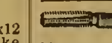


Extra quality steel. Easy cutting. State number of threads to inch wanted. Right hand threads only. Shipping weights, 1 to 14 ounces.

84 C 7364

Size in.	Threads to in.	Price each	Size In.	Threads to in.	Price each
⅛	30, 32	22¢	½	12, 13, 14, 16	$ .50
3/16	24, 26	25¢	9/16	12, 14	.59
¼	18, 20, 24	32¢	⅝	10, 11, 12	.65
5/16	16, 18, 20	36¢	¾	10, 12	.90
⅜	14, 16, 18	40¢	⅞	9, 10	1.20
7/16	14, 16, 18	43¢	1	8	1.50

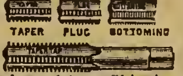
Stove Bolt Tap



Ship. wts., 2 to 3 ounces.

Size	3/16 in.	¼-in.	5/16 in.	⅜ in.
Thread	24	18	18	16
84 C 7370	14¢	19¢	22¢	24¢

Machinists' Hand Taps



All three styles at same price. U. S. Standard thread. Finest tempered steel. Patent relieved to facilitate cutting. Always state size, thread and style wanted: (Right hand threads only). Shipping weights, 1 to 14 ounces.

84 C 7365 Taper Taps — **84 C 7366** Plug Taps — **84 C 7367** Bottoming Taps

Size In.	Threads to in.	Price each	Size In.	Threads to in.	Price each
3/16	24, 32	18¢	½	12, 13, 24	$ .48
¼	20, 24, 32	24¢	⅝	11, 12	60
5/16	18, 20, 32	28¢	¾	10, 12	.88
⅜	16, 20	30¢	⅞	9, 12	1.18
7/16	14, 24	40¢	1	8, 12	1.47

Iron Rope Hoist

$1.85

Self-Locking

Will securely hold the weight at any point. Made of malleable iron. Light and substantial in construction. Prices are for one upper and one lower block. (Without rope.)

84 C 6176 — For ½-inch rope. Capacity, 1500 pounds. Shipping weight, per set, 8 pounds. Per set **$1.85**

84 C 6177 — For ¾-inch rope. Capacity, 2000 lbs. Shipping weight, per set, 16 pounds. Per set **$3.15**

Differential Chain Hoists

Weston Pattern

Carefully tested. Automatically holds load at any point. One man can lift very heavy weights safely. Indispensable for garage work. Made of best iron and steel. With enough chain to lift to the heights as given in table. Shipping weight, per set, 40 to 132 pounds.

Article Number	Cap. Tons	Lift Ft.	Per Set
484C6190	½	7	11.90
184C6191	1	8	15.50
184C6192	1½	8½	20.85
184C6193	2	9	26.10

Boston Self-Locking Hoists

$4.85

Heavy malleable iron, galvanized. Roller bearing sheaves. Works either vertically or horizontally. Load may be instantly held by self-locking device. Will not cut or chafe rope. One upper and one lower block. Without rope. Shipping weight, per set, 3 to 21 pounds.

For Rope	Cap. lbs.	84 C 6180
½ in.	1200	$4.85
½ in.	1700	5.10
¾ in.	1700	4.70
¾ in.	2000	6.50
¾ in.	2500	8.57
¾ in.	3000	7.95

Burr Steel Safety Lift

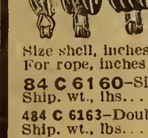
$1.48

Self-Locking

Locks securely on wet or greasy rope at any angle. Does not cut or wear rope. No springs to get out of order. One man can scald hogs, stretch fence, put away hay, etc. One upper and one lower block without rope. Shipping wt., per set, 5 to 28 lbs.

For Rope	Cap. lbs.	84 C 6185
⅜ in.	800	$1.48
½ in.	1500	2.70
⅝ in.	2000	3.45
¾ in.	2500	4.20
½ in.	3000	4.95
⅝ in.	3500	6.00
¾ in.	5000	6.95

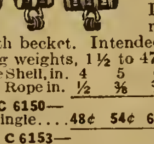
Steel Tackle Blocks



All steel shells and straps. Heavily forged loose hooks. Cast iron wheels. Shells have rounded edges to protect rope. With becket. For use with rope only, not intended for chain. State size.

Size shell, inches	4	6	8	10
For rope, inches	½	¾	1	1¼
84 C 6160—Single	40¢	50¢	98¢	$1.65
Ship. wt., lbs	1¼	3	7	13
484 C 6163—Double	70¢	89¢	$1.70	52.65
Ship. wt., lbs	1¾	4	10	18
484 C 6165—Triple	98¢	$1.30	$2.50	$3.70
Shipping wt., lbs	2½	6	13	27

Wood Tackle Blocks Iron Strapped



Hardwood shell, with rounded edges to prevent wearing the rope. Iron sheaves, wheels revolve on steel pins. With becket. Intended for rope only. Shipping weights, 1½ to 47 pounds.

Size Shell, in.	4	5	6	7	8	10	12
For Rope in.	½	⅜	¾	⅞	1	1⅛	1¼
84 C 6150—Single	48¢	54¢	64¢	75¢	95¢	$1.59	$2.58
484 C 6153—Double	92¢	$1.00	$1.16	$1.39	$1.65	$2.60	$4.35
484 C 6155—Triple	$1.25	$1.30	$1.68	$2.00	$2.46	$3.62	$6.18

Champion Ordnance Screw Plate

Very high grade screw plates with round two-piece adjustable dies. A tight, loose or exact thread may be cut with the same die by simply tightening or loosening the adjusting screws. Makes a perfect thread with a single cut. The dies and guides are fastened together as one unit by means of a hinge making it easy for the user to handle. Complete in hardwood case. Shipping weight 8 to 20 pounds.

484 C 7396 — Cutting 5 sizes U. S. Standard thread, ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13. One stock 18 inches, Tap Wrench 10 inches long. 5 taper taps. Per set **$9.85**

484 C 7397 — Cutting 7 sizes, U. S. Standard thread, ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13, ⅝-11, ¾-10. One stock 23 inch, Tap Wrench 15 inches long. 7 taper taps. Per set **$16.26**

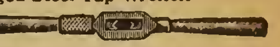
484 C 7398 — Cutting 9 Sizes, U. S. Standard thread, ¼-20, 5/16-18, ⅜-16, 7/16-14, ½-13, ⅝-11, ¾-10, ⅞-9, 1-8. One stock 26 inch, Tap Wrench 20 inches long. 9 taper taps. Per set **$23.50**

Auto Screw Plate For Fords

Adapted to all of the moderate priced cars. It contains taps and dies for cutting threads on all the bolts and screws in the Ford and many other cars. Dies and taps of special tool steel. Stock, length 16 inches. Tap wrench, length 14½ inches. Has seven plug hand taps, and seven 17/16-inch round adjustable dies with guides. Cuts 7 sizes S. A. E. threads as follows: ¼-28, 5/16-24, ⅜-24, 13/32-16, 7/16-20, 7/16-14, ½-20. In hardwood case. Shipping weight, per set, 9¼ pounds.

484 C 7338—Per set **$10.70**

Forged Steel Tap Wrench



Steel handles. Tempered steel jaws. For holding various size taps. To adjust, turn knurled part of handle. Finely polished.

84 C 7390—Length, 11 inches. For taps 3/16 to ½ inch. Shipping weight, 1 pound ... **$3.40**

84 C 7391—Length, 15 inches. For taps ¼ to ¾ inch. Shipping weight, 2 pounds .. **$3.85**

84 C 7392—Length, 20 inches. For taps ⅜ to 1 inch. Shipping weight, 3½ pounds .. **$4.80**

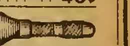
Hand Tap Wrench

Polished steel with four-jawed chuck.

84 C 7384—For small taps up to 3/16 inch. Shipping weight, 4 ounces .... **25¢**

84 C 7385—For taps up to ½ inch. Shipping weight, 8 ounces .... **40¢**

Ratchet Tap Holder



Excellent for hand use with small drills, taps and reamers. Reversible ratchet. Two-jawed chuck holds to 7/16 inch. Polished steel, with polished hardwood handle. Length, 5 inches. Shipping weight, 6 ounces.

84 C 7382 .... **$1.45**

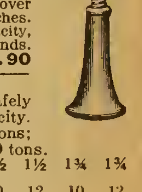
Jack Screws

Cast Jack Screw

Heavy cast iron screw, collar and plate: seamless threads. Used largely by house movers. Diameter of screw, 3 inches. Shipping weights, 55 to 68 pounds.

Size over all	84 C 6200
20 inches	$3.20
24 inches	3.65
30 inches	4.35

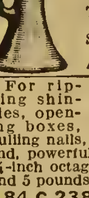
Ratchet Jack Screw



Iron base and cap. Solid cold rolled 2 inch steel screw. Stand height, 9 inches. Height over all, closed, 16 inches; open, 23 inches. Safe rise of screw, 7 inches. Capacity, 25 tons. Shipping weight, 42 pounds.

484 C 6198 .... **$4.90**

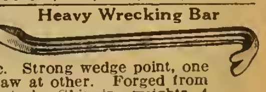
Locomotive Jack Screw



Every jack screw will safely carry the load given as its capacity. Capacity, 1½ inches, 12 tons; 1¾ inches, 16 tons; 2 inches, 20 tons.

Diam., in.	1½	1½	1½	1¾	1¾
Stand, Ht. inches	8	10	12	10	12
Total Ht., Inches	12	14	16	14	16
Ship. wt., lbs	16	19	21	25	26
484C6195	$1.95	$2.16	$2.39	$2.60	$2.85
Diam., in.	1¼	2	2	2	2
Stand, Ht. inches	14	8	10	12	16
Total Ht., inches	18	12½	14½	16½	20½
Ship. wt., lbs	29	22	28	30	48
484C6195	$3.07	$2.73	$3.10	$3.40	$4.25

Heavy Wrecking Bar



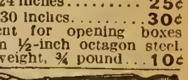
For ripping shingles, opening boxes, pulling nails, etc. Strong wedge point, one end, powerful claw at other. Forged from ¾-inch octagon steel. Shipping weights, 4 and 5 pounds.

484 C 2386—Length, 24 inches .... **25¢**

484 C 2387—Length, 30 inches .... **30¢**

84 C 2389—Convenient for opening boxes and crates. Forged from ½-inch octagon steel. Length, 12 in. Shipping weight, ¾ pound ... **10¢**

Cyclops Nail Puller



Cast, Japanned (black) handle with forged steel jaws. Length, open, 23 inches. Shipping weight, 5½ pounds.

84 C 2382 .... **$1.65**

Crowbar

Pinch point crowbar. Solid forged steel. Properly tempered. Strong and thoroughly dependable. Length, about 5 feet. Shipping weights same as actual weights. State weight wanted.

Weight, pounds	12	14	16	18	20
484 C 6210	85¢	$1.05	$1.20	$1.35	$1.50

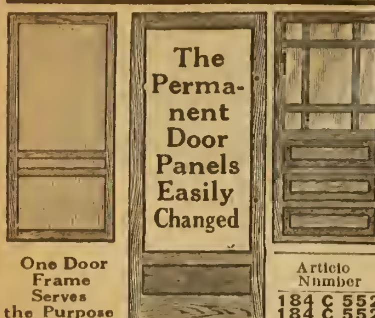
Wedge Point Crowbar

Solid forged steel. Length, 5 feet. Shipping weight same as actual weight. State weight wanted.

Weight, pounds	12	14	16	18	20
484 C 6211	85¢	$1.05	$1.20	$1.35	$1.50

For Manila Rope see Page 645

$7.35 Combination Screen and Storm Door



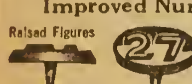
The Permanent Door Panels Easily Changed

One Door Frame Serves the Purpose of Two

No need to change doors twice a year. Costs little. Is long lasting, the door once adjusted, stays fitted and does not have to be planed down or re-adjusted twice a year. By merely taking out the removable screen and putting in the sash you have changed it from a screen to a storm door. Removable panels fit flush with door frame. Held firmly in place by a patent metal lock, quickly and easily adjusted with a screwdriver. No amount of jarring can loosen the screen or storm sash. Just as solid as if built in. Door frame is made of selected white pine 1⅛ inches thick, sanded and smoothed. Screen panel wired with fine 14-mesh galvanized wire cloth. Storm sash glazed with strong clear glass.

Article Number	Size of Door: Width	Length	Ship. Weight.	Price Complete
184 C 5520	2 ft., 8 in.	6 ft., 8 in.	60 lbs.	$7.35
184 C 5521	2 ft., 10 in.	6 ft., 10 in.	65 lbs.	7.70
184 C 5523	2 ft., 10 in.	7 ft.	70 lbs.	8.00
184 C 5524	3 ft.	7 ft.	75 lbs.	8.35

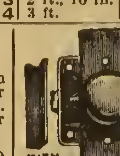
Improved Numbering Tacks



Cast aluminum in one piece. Diameter of head, ½ inch. Shipping weight, per hundred, 4 ounces.

Numbers	1 to 25	26 to 50	1 to 100
84 C 4562—Per package	20¢	20¢	75¢

Rim Latch



Escutcheon, 3⅞ by 1½ inches. For screen and storm doors swinging out. Plated steel. Shipping weight, 12 ounces.
84 C 3765—Bronze plated .... 60¢
84 C 3766—Antique copper plated .... 60¢

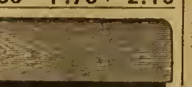
Weather Strip 69¢ For 25 feet of ½-inch Felt

Rubber Weather Strips

With cloth insertion. Shipping weight, 50 feet, 1 to 2 pounds.
84 C 4750—State Size.

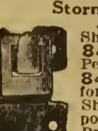
Width	⅜ in.	½ in.	¾ in.	1 in.
25 ft. roll	49¢	$ .65	$ .85	$1.10
50 ft. roll	98¢	1.30	1.70	2.15

Wood, Felt-Lined



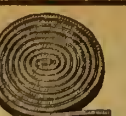
Stained wood molding with thick felt. In bundles of 14 pieces, 7 feet lengths, total 98 feet with nails. We cannot break bundles. Easy to apply, saves fuel and prevents draughts.
184 C 4755—Width ¾ inch for windows. Shipping weight, per bundle, 5 pounds.
Per bundle $2.33
184 4C756—Width 1¼ inches for doors. Shipping weight, per bundle, 8 pounds
Per bundle $4.65

Storm Window Top Hinge



Japanned steel. Screws Included. Shipping weight., dozen sets, 2½ lbs.
84 C 3782—Per Set .... 8¢
Per dozen Sets .... 90¢
84 C 3783—Extra Hangers Only, for hanging screens on same hooks. Shipping weight., per dozen sets, 1¼ pounds.
Per Set .... 5¢
Per Dozen Sets .... 50¢

Cushion Felt



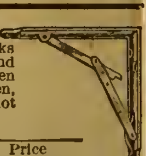
All felt, securely stitched. For doors and windows. Excludes cold wind, snow and dust. Simple to apply. **State size.** Shipping weights, 50 feet, 12 to 18 ounces.
84 C 4754

Width	½ in.	⅝ in.	¾ in.
Per 25-foot roll	$ .69	$ .83	$ .98
Per 50-foot roll	1.35	1.58	1.85

Rubber Weather Strip—Zinc Back

In rolls 100 feet long. **State size.** Shipping weight, 5 pounds.
84 C 4758—Width ½ inch. Per roll $2.35
Width, ¾ inch. Per roll 3.10

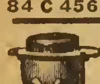
Folding Steel Bracket



Japanned wrought steel. Locks automatically when lifted up and folds down against the wall when not in use. Fine for the kitchen, pantry or store room. Screws not included. **State size.**
84 C 4354

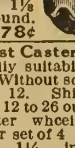
Size	Shipping Weight per pair	Price per pair
8x 8 in.	1½ pounds	$ .55
12x12 in.	3 pounds	.85
16x16 in.	4½ pounds	1.45

Easy Running Ball Casters



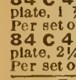
Brass plated. Excellent casters.
84 C 4372—Diameter, ball, ¾ inch. Shipping weight, per set of four, 8 ounces. Per set of 4 .... 62¢
84 C 4374—Diameter, ball, 1⅛ inches. Shipping weight, per set of four, 1 pound. Per set of 4 .... 72¢

Easy Running Ball Casters With Stems



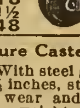
Very easy acting, make furniture roll quietly. Brass plated.
84 C 4370—Diameter of ball, ¾ inch. Shipping weight, per set of four, 8 ounces. Per set of 4 .... 67¢
84 C 4371—Diameter of ball, 1⅛ inches. Shipping weight, 1 pound. Per set of 4 .... 78¢

Ball Bearing Chest Casters



Wood wheel especially suitable for refrigerators or desks. Without screws. Use sizes 8, 10, and 12. Shipping weights, per set of four, 12 to 26 ounces.
84 C 4384—Diameter wheel, one inch; plate, 1½ by 1³⁄₁₆ inches. Per set of 4 .... 19¢
84 C 4385—Diameter wheel, 1¼ inches; plate, 1⅞ by 1½ inches.
Per set of 4 .... 26¢
84 C 4386—Diameter wheel, 1⅝ inches; plate, 2¼ by 1¾ inches.
Per set of 4 .... 37¢

Ball Bearing Felt Wheel Casters

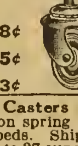


High-grade casters for better furniture. Wheels are compressed pure wool felt, will not scratch the floor. Run easily and quietly. Size of sockets, ⅝ by 1⅜ inches. Shipping weight, per set, of four, 20 ounces.
84 C 4378—Diameter, wheel, 1¼ inches. Per set of 4 .... $1.18
84 C 4378—Diameter, wheel, 1½ inches. Per set of 4 .... $1.48

Standard Furniture Casters

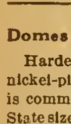
Hardwood wheels. With steel grip-neck sockets, ⅜ by 1⅜ inches, strong steel stem built for wear and are easy acting. Shipping weights, per set of four, 8 and 16 ounces.
84 C 4392—Diameter of wheel, 1⅛ inches. Per set of 4 .... 10¢
84 C 4393—Diameter of wheel, 1⅜ inches. Per set of 4 .... 12¢

Ball Bearing Furniture Casters



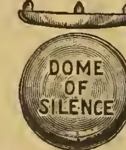
Wood wheels. Grip-neck sockets ⅜ by 1⅜ inches long. Shipping wt., per set of four, 13½ to 22 oz.
84 C 4381—
Diameter wheel, 1 inch.
Per set of 4 .... 18¢
Diameter wheel, 1¼ inches.
Per set of 4 .... 25¢
Diameter wheel, 1⅝ inches.
Per set of 4 .... 33¢

Ball Bearing Bed Casters



Wood wheels. Expansion spring sockets. Fit iron and brass beds. Shipping weights, per set of four, 12 to 27 ounces.
84 C 4389—Diameter wheel, 1 inch, for opening ⅝ inch.
Per set of 4 .... 18¢
84 C 4390—Diameter wheel, 1¼ inches, for opening ¾ inch.
Per set of 4 .... 22¢

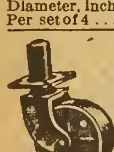
Genuine Domes of Silence Casters



Hardened, polished steel, nickel-plated. Size ⅝ inch is commonly used for chairs. State size. Ship. wt., easily attached per set of four, 2 to 4 oz.
84 C 4402—

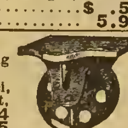
Diameter, inches	½	⅝	¾	⅞	1⅛
Per set of 4	8¢	8¢	8¢	8¢	12¢

Swivel Truck Caster



Japanned iron.
84 C 4412—Diameter wheel, 2⅞ inches. Shipping weight, each, 1½ pounds. Each .... $ .45
Per dozen 4.80
84 C 4412—Diameter wheel, 3⅞ inches. Shipping weight, each, 3 pounds. Each .... $ .55
Per dozen 5.95

Rigid Truck Casters



Japanned iron, made strong and durable.
84 C 4410—Diameter wheel, 2⅞ inches. Shipping weight, each, 1½ pounds. Each $ .34
Per dozen 3.95
84 C 4410—Diameter wheel, 4 inches. Shipping weight, each, 2¾ pounds.
Each .... $ .49
Per dozen 5.75

Brace Plates

Screws not included; Shipping weight, per dozen, 1½ to 5 pounds.

84 C 4228

Size	Per doz.
2x⅝ in.	25¢
3x¾ in.	40¢
4x⅞ in.	65¢

84 C 4231

Size	Per doz.
3x⅝ in.	$ .88
4x¾ in.	1.10
5x⅞ in.	1.55

84 C 4230

Size	Per doz.
3x⅝ in.	30¢
4x¾ in.	40¢
5x⅞ in.	55¢

84 C 4232

Size	Per doz.
3x¾ in.	32¢
4x⅞ in.	40¢
5x1 in.	48¢

Best Quality Wood Screws

No. 12 No. 10 No. 9 No. 8 No. 7 No. 6 No. 5 No. 4 No. 3 No. 2 No. 1

Length in inches is given first. Then size by number. Actual sizes shown above.

Flat Head Bright Steel Screws

Length and size	¼-1	⅜-2	½-2	½-3	½-4	⅝-4	⅝-5	⅝-6	¾-4	¾-5	¾-6	¾-7
84C4460—Pkg., 3 doz.	4¢	4¢	5¢	5¢	5¢	5¢	5¢	5¢	5¢	5¢	5¢	6¢
84C4462—Per gross	9¢	10¢	11¢	12¢	13¢	14¢	15¢	16¢	15¢	15¢	16¢	16¢
Length and size	¾-8	¾-9	¾-10	⅞-5	⅞-6	⅞-7	⅞-8	⅞-9	1-6	1-7	1-8	1-9
84C4460—Pkg., 3 doz.	6¢	6¢	7¢	5¢	6¢	6¢	6¢	7¢	6¢	7¢	7¢	7¢
84C4462—Per gross	17¢	18¢	19¢	15¢	16¢	17¢	18¢	19¢	16¢	17¢	19¢	19¢
Length and size	1-10	1-12	1¼-7	1¼-8	1¼-9	1¼-10	1¼-12	1½-8	1½-9	1½-10	1½-12	1¾-9
84C4460—Pkg., 3 doz.	8¢	8¢	7¢	8¢	8¢	8¢	10¢	8¢	9¢	9¢	10¢	10¢
84C4462—Per gross	21¢	25¢	19¢	20¢	21¢	23¢	28¢	23¢	24¢	25¢	29¢	27¢
Length and size	1¾-10	1¾-12	2-10	2-12	2-14	2¼-14	2½-12	2½-14	3-14	3½-16	.....	.....
84C4460—Pkg., 1 doz.	4¢	4¢	4¢	4¢	5¢	6¢	6¢	6¢	7¢	10¢	.....	.....
84C4462—Per gross	28¢	32¢	30¢	35¢	43¢	46¢	46¢	51¢	61¢	87¢	.....	.....

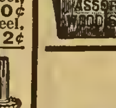
Round Head Blued Steel Screws

Length and size	½-3	½-4	½-5	¾-4	¾-5	¾-6	⅞-6	⅞-7	⅞-8	1-6	1-7	1-8
84C4480—Pkg., 3 doz.	5¢	6¢	6¢	6¢	6¢	7¢	7¢	7¢	8¢	7¢	7¢	8¢
84C4480—Per gross	14¢	15¢	16¢	16¢	17¢	17¢	18¢	19¢	20¢	19¢	20¢	21¢
Length and size	1-10	1¼-7	1¼-8	1¼-9	1¼-10	1½-10	1½-12	1¾-12	.....	.....	.....	.....
84C4480—Pkg., 3 doz.	8¢	8¢	9¢	9¢	10¢	10¢	12¢	15¢	.....	.....	.....	.....
84C4480—Per gross	22¢	22¢	23¢	24¢	26¢	28¢	33¢	36¢	.....	.....	.....	.....

Flat Head Brass Screws

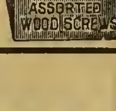
Length and size	⅜-2	⅜-3	½-2	½-3	½-4	⅝-4	⅝-5	⅝-6	¾-5	¾-6	¾-8	1-7
84C4482—1 dozen	3¢	3¢	3¢	3¢	3¢	3¢	4¢	4¢	4¢	4¢	6¢	6¢
84C4482—Per gross	21¢	22¢	22¢	23¢	24¢	26¢	29¢	32¢	33¢	35¢	45¢	47¢
Length and size	1-8	1¼-8	1¼-10	.....	.....	.....	.....	.....	.....	.....	.....	.....
84C4482—1 dozen	7¢	8¢	9¢	.....	.....	.....	.....	.....	.....	.....	.....	.....
84C4482—Per gross	56¢	65¢	80¢	.....	.....	.....	.....	.....	.....	.....	.....	.....

15¢ Assorted Wood Screws 25¢

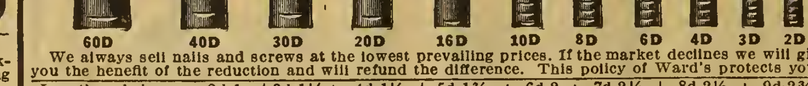


One pound of assorted sizes of round head, flat head, oval head, screws. Includes nickel, brass and blued wood screws. Handy for everyday repairs. Shipping weight, 1¼ pounds.
84 C 4492 .... 15¢

One gross of flat head wood screws consisting of three dozen each of ¾-7, 1-9, 1¼-10, and 1½-12. A very useful assortment. Shipping weight, 1¼ pounds.
84 C 4490 .... 25¢



Common Wire Nails



60D 40D 30D 20D 16D 10D 8D 6D 4D 3D 2D

We always sell nails and screws at the lowest prevailing prices. If the market declines we will give you the benefit of the reduction and will refund the difference. This policy of Ward's protects you.

Length and size.	2d-1	3d-1¼	4d-1½	5d-1¾	6d-2	7d-2¼	8d-2½	9d-2¾
84C8200—Per lb.	5¢	5¢	4½¢	4½¢	4½¢	4½¢	4¢	4¢
184C8200—100 lbs.	$4.35	$4.05	$3.75	$3.70	$3.55	$3.50	$3.25	$3.25

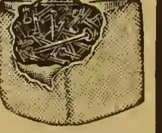
Length and size	10d-3	12d-3¼	16d-3½	20d-4	30d-4½	40d-5	50d-5½	60d-6
84C8200—Per lb.	4¢	4¢	4¢	4¢	4¢	4¢	4¢	4¢
184C8200—100 lbs.	$3.15	$3.10	$3.05	$2.95	$2.95	$2.95	$2.95	$2.95

Special Wire Nails

Fencing Nails 84C8201—Per lb. 184C8201—100 lbs.	8d-2 4¢ $3.20	10d-3 4¢ $3.15	Casing Nails 84C8204—Per lb. 184C8204—100 lbs.	6d-2 4½¢ $3.65	8d-2 4½¢ $3.45	—
Floor Brads 84C8202—Per lb. 184C8202—100 lbs.	8d-2 4¢ $3.30	10d-3 4¢ $3.20	Fine Lath Nails 84C8205—Per lb. 184C8205—100 lbs.	2d-1 6¢ $4.90	3d-1⅛ 5½¢ $4.90	
Box Nails 84C8206—Per lb. 184C8206—100 lbs.	7d 4½¢ $3.60		Finishing Nails 84C8203—Per lb. 184C8203—100 lbs.	6d-2 5¢ $3.95	8d-2 4½¢ $3.55	10d3 4¢ $3.38

Number	Galvanized Wire Shingle Nails	Size	Lgth. In	Price
184 C 8212	Per Keg of 100 Pounds	3d	1¼	$5.10
184 C 8212	Per Keg of 100 Pounds	4d	1½	4.90
84 C 8212	Smaller quantities, per pound	3d	1¼	6¢
84 C 8212	Smaller quantities, per pound	4d	1½	6¢

Assorted Nails 95¢ For 25 Lbs.



Assorted wire nails ranging in size from 2d to 40d. Net weight, 25 pounds. All bright new stock. In strong container. Shipping weight, 28 pounds.
484 C 8210 .... 95¢

Wire Brads

84 C 4512

Small head. **State size** packages. Shipping weight, per pound package, 18 ounces.

Length	No.	Per Pound
½	20	24¢
¾	18	15¢
1	17	12¢
1¼	16	10¢
1½	15	9¢
1¾	14	9¢

Wire Nails

Flat heads. **State size.** Shipping weight, per pound package, 18 ounces.
84 C 4510

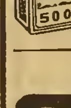
Length	No.	Per Pound
½ in.	19	21¢
¾ in.	18	15¢
1 in.	17	12¢
1½ in.	16	10¢
1¾ in.	15	9¢
2 in.	14	8¢

Clout Nails

A soft iron nail for clinching. Shipping weight, per pound package, 18 ounces. **State size.**
84 C 4514

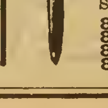
Lngth.	Per lb.
½	17¢
¾	15¢
1	14¢
1¼	13¢
1½	13¢
2	12¢

Carpet Tacks



Packages of about 500 tacks. Sizes, 6, 8 or 10 ounces. Lengths, about ½, ⁹⁄₁₆, ⅝ inches. **State size.** Shipping weight, per package, 3 ounces.
84 C 4516—Per package .... 5¢
Per dozen packages .... 59¢

Colored Upholstering Tacks



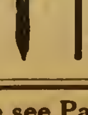
Heads durably enameled. Broad under edge prevents cutting the gimp. Package of 100 tacks. **State color.** Shipping weight, per package, 6 ounces.
84 C 4540—Black. Per pkg. .... 10¢
84 C 4541—Tan. Per pkg. .... 10¢
84 C 4542—Green. Per pkg. .... 10¢
84 C 4543—Maroon. Per pkg. .... 10¢

Bill Posters' Tacks

Very large flat heads. Sharp points. Blued steel. Shipping weights, per pound, 1¼ pounds; per 25 pounds, 28 pounds. **State size.**
84 C 4531

Size	2½	3	4	6
Length Inches	⁵⁄₁₆	⅜	⁷⁄₁₆	½
Per pound	$ .18	$ .17	$ .16	$ .15
Per 25 Pounds	3.75	3.60	3.50	3.40

Brass-Plated Head Tacks

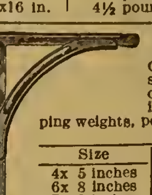


Gilt finish. Heads are brass plated steel. Shipping weight, per hundred, 4 ounces.

Small Size
84 C 4535—Per 100 .... 7¢
Per 1000 .... 60¢

Large Size
84 C 4536—Per 100 .... 10¢
Per 1000 .... 95¢

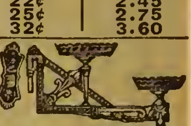
Steel Shelf Brackets



Japanned wrought steel. Convenient for putting up secure shelves or bracing overloaded ones. Screws not included. **State size.** Shipping weights, per pair, ½ to 2 pounds.
84 C 4350

Size	Per pair	Per doz. pairs
4x 5 inches	9¢	$ .98
6x 8 inches	15¢	1.65
7x 9 inches	22¢	2.45
8x10 inches	25¢	2.75
10x12 inches	32¢	3.60

Flower Pot Bracket



Bronzed, heavy iron. Holds two flower pots. Length of arm, 11 inches. Screws not included. Shipping weight, each, 3 pounds.
84 C 4362—Each .... 50¢

Wire Screw Hooks

State size. Shipping weights, per dozen, 1 to 10 ounces.
84 C 4498

Length	Per dozen.
1 inch	3¢
1⅜ inches	4¢
1¾ inches	6¢
2¼ inches	7¢

Wire Screw Eyes

State size. Light pattern. Shipping weight, per dozen, 1 to 4 ounces.
84 C 4502

Length	Per Dozen
¾ inch	3¢
⅞ inch	4¢
1 inch	4¢
1⅛ inches	4¢

Brass Cup Hooks

State size
Often used in china cabinets. Shipping weights, per dozen, 1 to 3 ounces.
84 C 4500

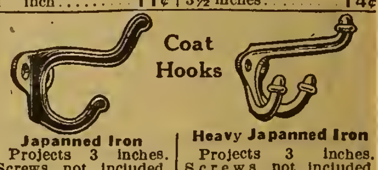
Length	Per Dozen
¾ inch	9¢
⅞ inch	10¢
1 inch	11¢

Wire Screw Hooks

State size.
Shipping weights, per dozen, 1 to 16 ounces.
84 C 4495

Length	Per Dozen
1½ inches	4¢
2 inches	5¢
2½ inches	7¢
3 inches	8¢
3½ inches	14¢

Coat Hooks

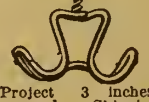


Japanned Iron
Projects 3 inches. Screws not included. Shipping weight, per dozen, 2 pounds.
84 C 4270—
Per dozen .... 35¢

Bronze Plated
Projects 3 inches. Screws included. Shipping weight, per dozen, 2 pounds.
84 C 4271—
Per dozen .... 65¢

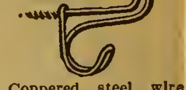
Heavy Japanned Iron
Projects 3 inches. Screws not included. Shipping weight, per dozen, 4 pounds.
84 C 4276—
per dozen .... 60¢

Wire Ceiling Hooks



Project 3 inches. Japanned. Shipping weight, per dozen, 12 ounces.
84 C 4304—
Per dozen .... 15¢

Coppered Hooks

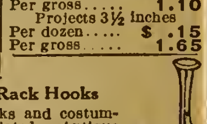


Coppered steel wire screw points. **State size.** Shipping weights, per dozen, 12 and 16 ounces.
84 C 4300
Projects 3 inches
Per dozen .... $ .10
Per gross 1.10
Projects 3½ inches
Per dozen .... $ .15
Per gross 1.65

Ornamental Hat Rack Hooks

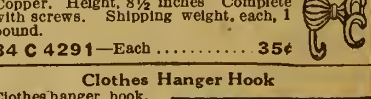
Suitable for hall racks and costumers. Cast; Bronze plated. Antique Copper. Height, 8½ inches. Complete with screws. Shipping weight, each, 1 pound.
84 C 4291—Each .... 35¢

Clothes Hanger Hook



Clothes hanger hook, used for holding hangers or other articles. Nickel plated steel, 9¾ inches long; weight, 9 ounces. Coat hangers not included.
Shipping weight, each, 1 pound.
84 C 4298—Ea. .... 10¢

Extension Bar for Clothes Closet

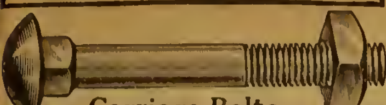


Makes Your Clothes Closet More Orderly
Saves Space and Easy to Reach

Brass Extension Bar for Clothing Hangers. The ideal way to hang clothes. Not one over the other on a hook as formerly, but from the rod. Keeps clothes in good shape. Made of rolled brass and is adjustable, 3 feet to 5⅓ feet. Fastens to walls with screws. Screws and coat hanger not included. Shipping weight, 2 pounds.
84 C 4299 .... 95¢

For an excellent line of Builders' Hardware see Pages 598 and 599

Bolts—Nuts—Washers



Carriage Bolts

Made of the best grade of special bolt steel, with clean, accurate round threads and well formed heads and nuts. **State size wanted.**

Diameter, ¼ inch. We sell packages of 50 at the 100 rate. Weight, per hundred, 2 to 14 pounds.
84 C 4800

Length, in.	1¼	1½	1¾	2	2¼	2½	2¾
10 Bolts	5¢	5¢	6¢	6¢	6¢	6¢	7¢
100 Bolts	38¢	39¢	42¢	44¢	46¢	48¢	50¢
Length, in.	3	3½	4	4½	5	6	7
10 Bolts	7¢	7¢	8¢	8¢	9¢	11¢	12¢
100 Bolts	52¢	53¢	57¢	61¢	65¢	73¢	84¢

Diameter, 5/16 inch. We sell packages of 50 at the 100 rate. Weight, per hundred, 3 to 20 pounds.
84 C 4801

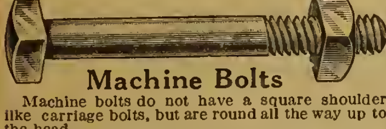
Length, in.	1¼	1½	1¾	2	2¼	2½	2¾
10 Bolts	7¢	7¢	8¢	8¢	8¢	8¢	9¢
100 Bolts	53¢	55¢	58¢	60¢	62¢	64¢	67¢
Length, in.	3	3¼	3½	3¾	4	4½	5
10 Bolts	9¢	9¢	9¢	11¢	11¢	11¢	12¢
100 Bolts	69¢	71¢	73¢	76¢	78¢	81¢	85¢
Length, in.	5½	6	7	8			
10 Bolts	12¢	13¢	.14	.17			
100 Bolts	90¢	95¢	1.10	1.20			

Diameter, ⅜ inch. We sell packages of 50 at the 100 rate. Weight, per hundred, 9 to 42 pounds.
84 C 4802

Length, in.	1½	1¾	2	2¼	2½	2¾	3
10 Bolts	9¢	9¢	9¢	11¢	11¢	12¢	12¢
100 Bolts	72¢	73¢	77¢	85¢	88¢	91¢	93¢
Length, in.	3¼	3½	3¾	4	4½	5	5½
10 Bolts	.12	.12	.13	.13	.14	.14	.15
100 Bolts	97¢	1.00	1.03	1.06	1.09	1.16	1.22
Length, in.	6	6½	7	7½	8	10	12
10 bolts	.16	.19	.20	.20	.21	.24	.28
100 bolts	1.27	1.40	1.46	1.53	1.60	1.85	2.11

Diameter, ½ inch. We sell packages of 50 at the 100 rate. Weight, per hundred, 15 to 100 pounds.
84 C 4803

Length, in.	2	2¼	2½	3	3½	4	4½
10 Bolts	.16	.17	.19	.20	.21	.22	.23
100 Bolts	1.28	1.30	1.32	1.41	1.53	1.64	1.75
Length, in.	5	5½	6	6½	7	7½	8
10 Bolts	.24	.27	.28	.29	.30	.31	.34
100 Bolts	1.86	1.98	2.09	2.20	2.31	2.42	2.54
Length, in.	9	10	12	14	16		
10 Bolts	.37	.39	.45	.52	.54		
100 Bolts	2.76	2.98	3.43	3.88	4.33		



Machine Bolts

Machine bolts do not have a square shoulder like carriage bolts, but are round all the way up to the head.

Made with clean threads, perfectly formed square heads and butts.

Diameter, ¼ inch. We sell packages of 50 at the 100 rate. Weight, per hundred, 4 to 14 pounds.
84 C 4806

Length, in.	1½	2	2¼	2½	3	3½	4
10 Bolts	7¢	8¢	8¢	8¢	9¢	9¢	9¢
100 Bolts	58¢	60¢	63¢	65¢	68¢	70¢	72¢
Length, in.	4½	5					
10 Bolts	11¢	12¢					
100 Bolts	83¢	86¢					

Diameter, 5/16 inch. 50 at 100 rate. Weight, per hundred, 4 to 18 pounds. **84 C 4807**

Length, in.	1½	2	2½	2¾	3	3½	4
10 Bolts	9¢	9¢	9¢	11¢	11¢	11¢	12¢
100 Bolts	69¢	73¢	77¢	81¢	83¢	85¢	89¢
Length, in.	4½	5	6	7			
10 Bolts	13¢	14¢	.15	.16			
100 Bolts	1.04	1.09	1.17	1.27			

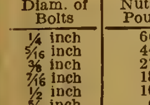
Diameter, ⅜ inch. We sell packages of 50 at the 100 rate. Weight, per hundred, 7 to 32 pounds.
84 C 4808

Length, in.	1½	2	2¼	2½	3	3½	4
10 Bolts	11¢	11¢	12¢	12¢	13¢	.13	.14
100 Bolts	82¢	88¢	93¢	95¢	99¢	1.04	1.10
Length, in.	4½	5	5½	6	7	8	
10 Bolts	.16	.17	.17	.19	.20	.21	
100 Bolts	1.28	1.34	1.40	1.46	1.58	1.70	

Diameter, ½ inch. 50 at 100 rate. Weight, per hundred, 1 to 130 pounds. **84 C 4809**

Length, in.	1½	2	2¼	2½	3	3½	4
10 Bolts	.17	.19	.19	.20	.21	.22	.23
100 Bolts	1.37	1.47	1.57	1.62	1.67	1.77	1.87
Length, in.	4½	5	5½	6	7	8	9
10 Bolts	.24	.25	.27	.29	.30	.33	.36
100 Bolts	1.96	2.06	2.16	2.27	2.46	2.66	2.85
Length, in.	10	12	14	16	20		
10 Bolts	.38	.43	.47	.52	.62		
100 Bolts	3.05	3.45	3.84	4.23	5.02		

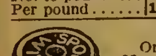
Square Bolt Nuts



Threaded and blank nuts. Will fit carriage and machine bolts. Prices subject to market changes. Shipping weight, per pound, 18 ounces.
State size wanted.

Size Diam. of Bolts	Average Nuts in Pound	84C4840 Threaded	84C4841 Blank
¼ inch	66	14¢ Per lb.	11¢ Per lb.
5/16 inch	44	12¢ "	9¢ "
⅜ inch	27	10¢ "	7¢ "
7/16 inch	18	8¢ "	6¢ "
½ inch	10	7¢ "	5¢ "
⅝ inch	6	6¢ "	....
¾ inch	4	5¢ "	....

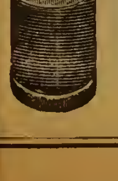
Wrought Iron Washers



Will fit all common bolts. Size is inside diameter.
State size wanted.
84 C 4844

Size............	3/16	¼	5/16	⅜	½	⅝	¾	1
No. to pound....	350	150	100	60	24	12	10	6
Per pound......	10¢	7¢	6¢	5¢	4¢	3¢	3¢	3¢

Spool Wire



One-half pound to the spool. Number 16 gauge is 1/16 inch. Number 22 gauge is 1/32 inch in diameter. **State size.** Shipping weight, per spool, 12 ounces.

Annealed Steel Wire

Gauge.......	16	18	20	22	24
84 C 4570	13¢	14¢	15¢	16¢	17¢

Soft Copper Wire

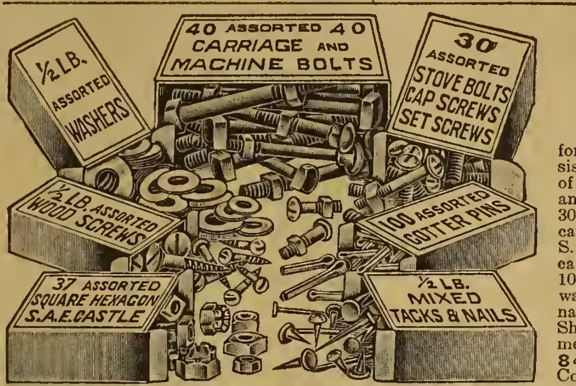
Gauge...........	16	18	20	22
84 C 4572....	22¢	23¢	24¢	32¢

Complete Repair Assortment

A very complete assortment containing everything needed for general repairs around Automobiles, Farm Engines and Machinery, Tools, and the house or barns. Standard automobile nuts and cap screws are included. Assortment consists of the following:

50 assorted carriage bolts with nuts; 50 assorted machine bolts with nuts; 70 assorted square, and S. A. E. Standard Automobile sizes of hexagon and castle nuts; 22 assorted cap, set and lag screws; 1 pound assorted wood screws; 1 pound assorted nails and tacks; 1 pound assorted washers; 20 assorted stove bolts; 100 assorted cotter pins; 4 two-ounce packages of tinned tinner's rivets, copper plated belt rivets with burrs, flat head countersunk section rivets No. 5½ and No. 6. Shipping weight of complete assortment, 20 pounds.

84 C 4828—Complete assortment in wooden box.......................**$1.98**



Ward's Handy Assortment

$1.00

A big value. Everything for everyday repairs. Consists of assorted sizes of each of the following: 40 carriage and machine bolts with nuts; 30 stove bolts, set screws and cap screws; 37 square and S. A. E. automobile sizes of castle and hexagon nuts; 100 cotter pins; ½-pound washers; ½-pound tacks and nails; ½-pound wood screws. Ship. wt. of complete assortment, 10 pounds.

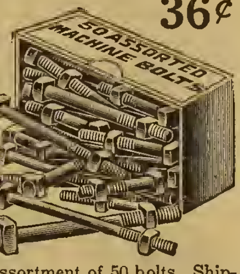
84 C 4829—
Complete assortment **$1.00**

30¢ Carriage Bolts

The sizes most commonly needed. Clean threads and heads. Nuts to fit included. Diameter of bolts, ¼, 5/16 and ⅜ inch. Length, 1½ to 4 inches.

84 C 4824—Assortment of 50 bolts. Shipping weight, 4 pounds..................**30¢**
84 C 4822—Assortment of 100 bolts. Shipping weight, 8 pounds..............**55¢**

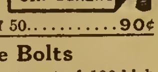
Machine Bolts 36¢



The sizes most commonly needed. Clean cut threads and solid square heads. Nuts to fit included. Ten sizes from 2 to 5 inches long and ¼, 5/16 and ⅜ inches in diameter.

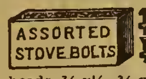
84 C 4826—Assortment of 50 bolts. Shipping weight, 5 pounds..................**36¢**
84 C 4825—Assortment of 100 bolts. Shipping weight, 10 pounds............**69¢**

Assorted Cap Screws



Assortment 50 cap screws. Hexagon head. Diameter, ¼, 5/16, ⅜, 7/16, ½. Lengths, ½ to 1½ inches. Ship. weight, 3½ pounds.
84 C 4831—Assortment of 50..........**90¢**

Assorted Stove Bolts

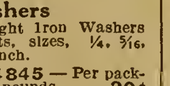


An assortment of 100 high quality bolts; 10 each of the following: Flatheads, 3/16x¾, 3/16x1, ¼x¾, ¼x1, ¼x1¼, ¼x1½. Roundheads, 3/16x½, 3/16x¾, ¼x¾, ¼x1. Ship. wt., 1 lb.
84 C 4820—Assortment of 100..........**35¢**

Assorted Cotter Pins

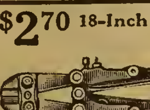
Assorted 20 each, ⅛x1¼, 3/16 x1¼; 15 each, 3/16 x1½, ¼x1½, 10 each, ¼x1¾, ¼x2, 5/16 x2½. Shipping wt., per package, 2⅛ lbs.
84 C 4886—Assortment package of 100..**18¢**

Assorted Threaded Bolt Nuts



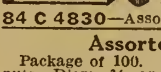
An assortment of nuts for carriage or machine bolts. Strong, square and with clean cut threads. Sizes ¼, 5/16, ⅜, 7/16, ½ inch. Wt., 2½ lbs. Shipping weight, 3 pounds.
84 C 4842—Per package...............**22¢**

Assorted Washers



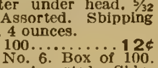
Wrought Iron Washers for bolts, sizes, ¼, 5/16, ⅜, ½ inch.
84 C 4845 — Per package, 2½ pounds......**20¢**
84 C 4846 — Per package, 5 pounds........**36¢**

Assorted Set Screws



Assortment of 50 cup point set screws. Diameters, ¼, 5/16, ⅜, 7/16, ½. Lengths, ½ to 1½ inches. Shipping weight, 2 pounds.
84 C 4830—Assortment of 50...........**60¢**

Assorted Tire Bolts



Package of 100. With nuts. Diam. 3/16 and ¼ in Length, 1½ in. to 3 inches. Ship. weight, 1 pound.
84 C 4838.......**27¢**

Assorted Slotted Rivets

84 C 4860—Small size. No. 9. Box of 100. Diameter under head, 5/32 inch. Assorted. Shipping weight, 4 ounces. Box of 100...........**12¢**
84 C 4861—Large size. No. 6. Box of 100. Diameter under head, 7/32 inch. Assorted. Shipping weight, 8 ounces. Assortment of 100...**22¢**

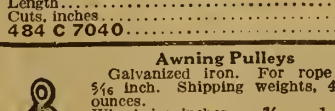
Handy Rivet Assortment

Consisting of following six styles of rivets: 1 Box No. 6 Section Rivets, assorted ½ inch to 1 inch; 1 box No. 5½ Section Rivets, assorted ½ inch to 1 inch; 1 box No. 8 Coppered Iron Rivets and Burrs, assorted ⅜ inch to ¾ inch; 1 box Tinned Tinners' Rivets assorted; 1 box Japanned Tubular Rivets, 3/16 to ½ inch; 1 box Coppered Clinch Rivets, ¼ to ½ inch. Shipping weight, complete assortment, 1 pound.
84 C 4862—Complete assortment....**33¢**

Improved Bolt Clippers

$2.70 18-Inch Size — 12-Inch Size **90¢**

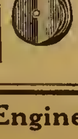
Powerful and Strong



Solid steel jaws, well tempered. Adjustable to take up wear. Rubber bumpers between the handles to avoid the jar on the hands and wrists. Size 12-inch is not adjustable, and has no rubber bumpers. It is intended for light work only. Shipping weights, 2 to 13 pounds.

Length........	12 in.	18 in.	24 in.	30 in.	36 in.
Cuts, inches.....	3/16	5/16	⅜	½	⅝
484 C 7040......	90¢	$2.70	$3.60	$4.95	$6.45

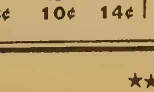
Awning Pulleys



Galvanized iron. For rope up to 5/16 inch. Shipping weights, 4 to 12 ounces.

Wheel size, inches..	¾	1	1½
84 C 4433—Double........	9¢	13¢	17¢
Wheel size, inches..	¾	1	1½
84 C 4432—Single........	6¢	8¢	14¢

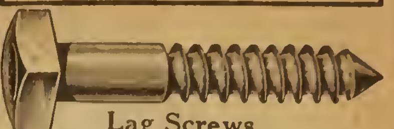
Screw Pulleys



Screw pulley, Japanned iron. Shipping weights, 3 to 10 ounces. **State size wanted.**

Wheel size........	1½ in.	2 in.	2½ in.	3 in.
84 C 4430......	5¢	8¢	10¢	14¢

Lag Screws—Bolts—Rivets



Lag Screws

Square heads. Gimlet points.

Diameter, 5/16 inch. Weight, per hundred, 4¾ to 12 pounds **84 C 4812**

Length, in.	1½	2	2½	3	3½
10 Screws	11¢	12¢	12¢	.13	.13
100 Screws	81¢	89¢	96¢	1.03	1.10

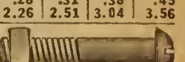
Diameter, ⅜ inch. Weight, per hundred, 6 to 17 pounds. **84 C 4813**

Length, in.	1½	2	2½	3	3½	4	5	6
10 Screws	13¢	14¢	.15	.16	.17	.19	.21	.23
100 Screws	97¢	1.07	1.16	1.26	1.35	1.44	1.63	1.82

Diameter, ½ inch. Weight, per hundred, 12 to 60 pounds. **84 C 4814**

Length, in.	3	4	5	6	8	10
10 Screws	.22	.25	.28	.31	.38	.45
100 Screws	1.74	2.00	2.26	2.51	3.04	3.56

Round Heads Stove Bolts



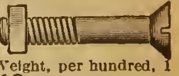
Diameter, 3/16 inch. Weight, per hundred, 1½ to 5 pounds. **84 C 4816**

Length, in.	½	¾	1	1¼	1½	2	2½	3
12 Bolts	3¢	3¢	4¢	4¢	4¢	5¢	5¢	6¢
100 Bolts	17¢	18¢	19¢	21¢	23¢	25¢	27¢	32¢

Diameter, ¼ inch. **84 C 4817**

Length, in.	½	¾	1	1¼	1½	2	2½	3
12 Bolts	4¢	5¢	5¢	5¢	6¢	6¢	7¢	7¢
100 Bolts	25¢	26¢	27¢	29¢	32¢	33¢	37¢	42¢

Flat Head Stove Bolts



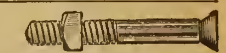
Diameter, 3/16 inch. Weight, per hundred, 1 to 5 pounds. **84 C 4818**

Length, in.	½	¾	1	1¼	1½	2	2½	3
12 Bolts	3¢	3¢	4¢	4¢	4¢	5¢	5¢	6¢
100 Bolts	17¢	18¢	19¢	21¢	23¢	25¢	27¢	32¢

Diameter, ¼ inch. **84 C 4819**

Length, in.	½	¾	1	1¼	1½	2	2½	3
12 Bolts	4¢	5¢	5¢	5¢	6¢	6¢	7¢	7¢
100 Bolts	25¢	26¢	27¢	29¢	32¢	33¢	37¢	42¢

Fluted Iron Tire Bolts



Grooves prevent the bolt from turning in the wood when the nut is being put on. Weight, per hundred, 2 to 5 pounds.

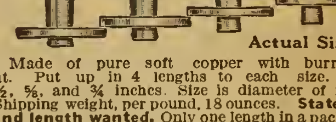
Diameter, 3/16 inch. **84 C 4836**

Length, in.	1½	1¾	2	2¼	2½	3
12 Bolts	4¢	5¢	5¢	6¢	6¢	7¢
100 Bolts	25¢	27¢	29¢	32¢	33¢	37¢

Diameter, ¼ inch. **84 C 4837**

Length, in.	1¾	2	2¼	2½	3
12 Bolts	7¢	7¢	8¢	8¢	9¢
100 Bolts	42¢	43¢	45¢	47¢	52¢

Copper Rivets and Burrs



Actual Size

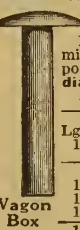
Made of pure soft copper with burrs to fit. Put up in 4 lengths to each size. ⅜, ½, ⅝, and ¾ inches. Size is diameter of rivet. Shipping weight, per pound, 18 ounces. **State size and length wanted.** Only one length in a package.

Number	Size	Lengths	1 lb.
84 C 4870	8	⅜, ½, ⅝, ¾	30¢
84 C 4873	9	⅜, ½, ⅝, ¾	31¢
84 C 4876	10	⅜, ½, ⅝, ¾	33¢
84 C 4879	12	⅜, ½, ⅝, ¾	35¢

Assorted lengths of above rivets with burrs.

Number	Size	Lengths	½ lb.	1 lb.
84 C 4883	8	Asstd. ⅜ to ¾	17¢	32¢
84 C 4884	9	Asstd. ⅜ to ¾	17¢	33¢
84 C 4885	10	Asstd. ⅜ to ¾	18¢	35¢
84 C 4880	12	Asstd. ⅜ to ¾	20¢	37¢

Soft Steel Rivets



Wagon Box Head

Round Head

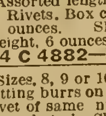
Best quality. Tough annealed mild steel. Number of rivets to pound is approximate. **State diameter and length wanted.** Ship. wt., per lb. pkg., 18 oz.

Lgth. In.	Rivets in Pounds 3/16	Rivets in Pounds ¼	Lgth. In.	Rivets in Pounds 3/16	Rivets in Pounds ¼
¾	115	55	1¾	60	32
1	96	47	2	53	30
1¼	83	42	2¼	47	26
1½	70	35	2½	45	25

1 pound packages of each length. Packages are not assorted sizes.
State length wanted. Lengths are shown in table above.

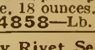
Number Style Rivet	84C4852 Round Head	84C4853 Round Head	84C4856 Wagon Boxhead	84C4857 Wagon Boxhead
Diam., in.	3/16	¼	3/16	¼
Pkg. 1 lb.	9¢	8¢	9¢	8¢

Iron Rivets and Burrs Copper Plated



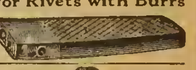
Assorted lengths. No. 8, Rivets. Box contains 4 ounces. Shipping weight, 6 ounces.
84 C 4882—Box 6¢

Iron Rivet Burrs



Sizes, 3/16 and ¼ inch. For use with Soft Steel Rivets. 3/16-inch 362 burrs to pound; ¼-inch, 210 burrs to pound. **State size wanted.** Ship. wt. per lb. package, 18 ounces.
84 C 4858—Lb..**15¢**

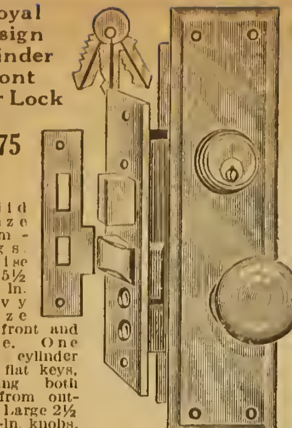
Handy Rivet Setter for Rivets with Burrs



Sizes, 8, 9 or 10. For setting burrs on copper rivet of same number. Forged steel. Shipping weight, 10 ounces.
84 C 4890... **12¢**

Riveting Machine

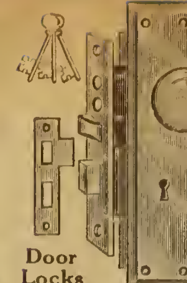
A solid, well made iron machine for either slotted or tubular rivets. Has a magazine in the frame with brass screw cap. Height, frame, 6½ inches. Ship. wt., 4 pounds.
84 C 4892........ **65¢**



Royal Design Cylinder Front Door Lock

$6.75

Solid bronze trimmings. Mortise lock, 5½ by 3¾ in. Heavy bronze bolts, front and strike. One bronze cylinder and 3 flat keys, operating both bolts from outside. Large 2½ by 2¼-in. knobs, swivel spindle. Outside escutcheons, 10¼ by 3¼ inches. Inside, 7⅛ by 2¼ in., with bolt turn. Screws included. Reversible. Shipping weight, 5¼ pounds.
84 C 2900—Solid bronze, antique copper finish **$6.75**
84 C 2901—Solid bronze, dull lemon brass finish **$6.75**



Door Locks Royal Design

Mortise lock, 5 by 3½ inches. 2¼-inch knobs, swivel spindle; 3 steel bit keys operate both bolts from outside and the lock bolt from inside. Outside escutcheon, 10 by 3 inches; inside, 7 by 2¼ inches. Screws included. Reversible. Ship. weight, 4 pounds.

Solid Bronze bolts, front, strike and trimmings.
84 C 2902—Antique copper finish **$2.85**
84 C 2903—Dull lemon brass finish **2.85**

Plated Steel bolts, front, strike and trimmings.
84 C 2904—Antique copper finish **$1.65**
84 C 2905—Dull lemon brass finish **1.65**

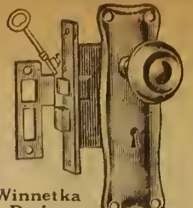
Royal Design Inside Set

60¢

Mortise lock, 3¾ by 3¼ inches. 2¼-inch knob; 1 steel bit key; 2 escutcheons, 7⅛ by 2¼ inches. Screws included. Reversible. Shipping weight, 2½ pounds.

Solid Bronze Trimmings
84 C 2906—Antique copper finish . . . **$1.55**
84 C 2907—Dull lemon brass finish **$1.55**

Plated Steel Trimmings
84 C 2908—Antique copper finish . . . . . . **60¢**
84 C 2909—Dull lemon brass finish . **60¢**

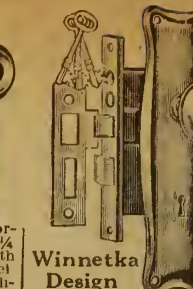


Winnetka Design

Inside door lock. Mortise lock 3¾ by 3¼ inches. Reversible. With 2¼-inch knobs; 1 steel bit key; 2 long escutcheons, 7½ by 2½ inches. Screws included. Shipping weight, 2 pounds.

Solid Bronze Trimmings
84 C 2948—Antique copper finish. . . . **$1.55**
84 C 2949—Dull lemon brass finish . . **$1.55**

Plated Steel Trimmings
84 C 2950—Antique copper finish . . . . . . **60¢**
84 C 2951—Dull lemon brass finish . . . . **60¢**

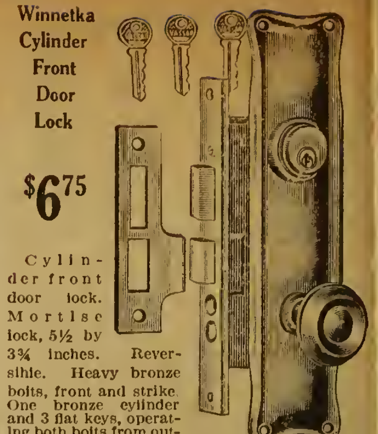


Winnetka Design

Mortise lock, 5 by 3½ inches. Reversible. 2¼-inch knobs, swivel spindle; 3 steel bit keys which operate both bolts from outside and the lock bolt from inside. Outside escutcheon, 10 by 3 inches. Inside, 7¾ by 2½ inches. Screws included. Shipping weight, 3¼ pounds.

Solid Bronze bolts, front, strike and trimmings.
84 C 2944—Antique copper finish **$2.85**
84 C 2945—Dull lemon brass finish **2.85**

Plated Steel bolts, front, strike and trimmings.
84 C 2946—Antique copper finish **$1.65**
84 C 2947—Dull lemon brass finish **1.65**



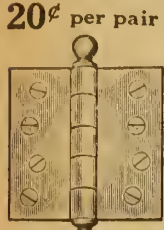
Winnetka Cylinder Front Door Lock

$6.75

Cylinder front door lock. Mortise lock, 5½ by 3¾ inches. Reversible. Heavy bronze bolts, front and strike. One bronze cylinder and 3 flat keys, operating both bolts from outside. Large, 2½ by 2¼-inch knobs, swivel spindle. Outside escutcheon, 11¾ by 3 inches. Inside, 7¾ by 2½ inches with bolt turn. Screws included. Shipping weight, 5½ pounds.
84 C 2942—Antique copper finish . . **$6.75**
84 C 2943—Dull lemon brass finish . **6.75**

Plated Steel Door Butts

20¢ per pair

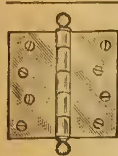


Wrought Steel Door Butts

Loose pin, smooth surface, two finishes, both same price. Screws to match included.
84 C 3600 — Antique copper finish.
84 C 3602—Dull lemon brass finish.

Size Inches	Ship. Wt., per pair	Price per pair
2 x2	6 oz.	20¢
2½x2½	10 oz.	22¢
3 x3	14 oz.	23¢
3½x3½	22 oz.	25¢
4 x4	30 oz.	35¢

Japanned Steel Butts

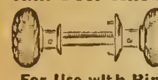


With Screws

Wrought steel. Black Japanned. Ball tips. Loose pin. With Japanned screws to match.

Size, Inches	Ship. Wt. Per Pair	84 C 3608 Per Pair
2½x2½	10 ounces	18¢
3 x3	14 ounces	20¢
3½x3½	24 ounces	22¢
4 x4	2 pounds	28¢

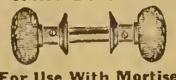
Rim Door Knobs



For Use with Rim Locks

With 5/16-inch spindle and Japanned rose. No screws included. (Use ½-inch No. 6.) Shipping weight, per pair, 1 pound.
84 C 3230—Brown mineral.
Per pair. . . . . **15¢**
84 C 3232—White porcelain. Per pair **17¢**
84 C 3234—Black glazed. Per pair. **17¢**

Mortise Door Knobs



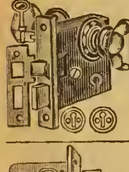
For Use With Mortise Locks

With 5/16-inch spindle and Japanned rose. No screws included. (Use ½-inch No. 6.) Shipping weight, per pair, 18 ounces.
84 C 3231 — Brown mineral.
Per pair. . . . . **18¢**
84 C 3233 — White porcelain. Per pair. **20¢**
84 C 3235—Black glazed. Per pair. . **20¢**

Glass Door Knobs

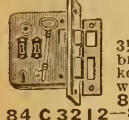
For use with mortise locks. Plain, 2¼ inch colonial glass knobs. With 2-inch lemon brass door plates. Screws included. Extensively used for bedroom doors. Shipping weight, per pair, 1½ pounds.
84 C 3295—Per pair. **$1.65**

Glass Knob Mortise Lock Set



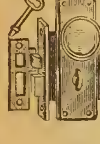
For inside doors, especially bedrooms. Mortise lock, 3¾ by 3¼ inches, brass face, pair of 2¼-inch fine octagon glass knobs; 2-inch dull lemon brass plates for knob. Shipping weight, per set, 2¼ pounds.
84 C 2977—Per set **$2.35**

Mortise Door Lock



Reversible Mortise Lock. Size, 3½ by 3¼ inches. With brass front, brass bolts, nickel-plated steel key. Without knobs. Shipping weight, 1½ pounds.
84 C 3214. . . . . **69¢**
84 C 3212—Same as above except with steel front and tinned key. . . . . **30¢**

Nickel-plated Bathroom Door Lock



Bathroom side has nickel-plated brass knob and escutcheon, size, 6 by 2 inches, with bolt turn. Other side will have brass escutcheon and knob to match any of our brass inside door sets that you mention. Mortise lock, 3½ by 3¼ inches. Nickel-plated brass face and strike. With key for outside. Screws included. Shipping weight, 2¼ pounds.
84 C 2978 . . . . **$2.10**

Store Door Lock Sets

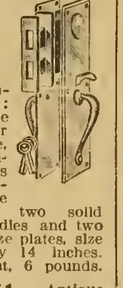
Plated Steel

$2.85

Set comprises: one mortise lock, 4½ by 3½ in.; lock is reversible; two strong handles, with two plates about 3 by 14 in. and two flat keys. A secure and attractive set. Antique copper plated on steel.

Shipping weight, 5 pounds.

84 C 3158 $2.85

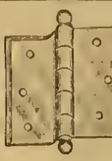


Solid Bronze

$8.75

Set comprises: One mortise cylinder lock, size, 5⅛ by 3⅝ inches; lock is reversible; three flat keys; two solid bronze handles and two solid bronze plates, size about 3 by 14 inches. Ship. weight, 6 pounds.
84 C 3151 — Antique copper finish. . . . **$8.75**
84 C 3152 — Dull lemon brass finish **$8.75**

Half Surface Plated Steel Butts Strong and Durable



With Screws

Reversible; with screws. Two finishes. Both same price.
84 C 3618—Antique copper.
84 C 3620—Dull lemon brass

Size	Wt. per pr.	Per pair
3 inches	16 ounces	35¢
3½ inches	22 ounces	40¢
4 inches	30 ounces	49¢

Half Surface Plated Steel Butts

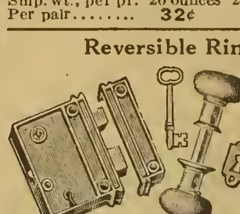
With Screws

One half is screwed on surface of door. Reversible. Screws included. Two finishes. Both same price.
State size
84 C 3614—Antique copper finish.
84 C 3616—Dull lemon brass finish.

Size.	3 inches	3½ inches	4 inches
Ship. wt., per pr.	20 ounces	28 ounces	36 ounces
Per pair.	32¢	38¢	48¢

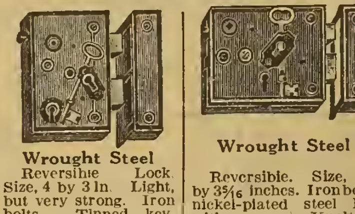
Reversible Rim Lock

Economy Door Lock Set



You often find use for this style of lock. Reversible cast iron rim lock, 4¼ by 3¼. With jet black knobs. One key and keyhole plate. Screws included. Shipping weight, lock only, 1 pound, complete set, 2¾ pounds.
84 C 3181—Complete set . . . . **35¢**
84 C 3180—Lock only, without knob . . . . . **20¢**

Reversible Rim Locks



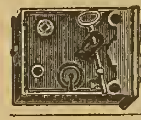
Wrought Steel

Reversible Lock. Size, 4 by 3 in. Light, but very strong. Iron bolts. Tinned key. With keyhole plate and screws. Knob not included. Shipping weight, 1 pound.
84 C 3185. . . . **32¢**

Wrought Steel

Reversible. Size, 4¼ by 3 5/16 inches. Iron bolts, nickel-plated steel key, with screws. Knob not included. Japanned keyhole plate. Shipping weight, 18 ounces.
84 C 3186 . . . . . **55¢**

Cast Reversible Lock



Reversible lock. Size, 4¼ by 3¼ inches. With stop. Iron bolts. Tinned key. With keyhole plate and screws. (Knob not included.) Shipping weight, 1 pound.
84 C 3190. . . . . . **23¢**

Safety Night Latch

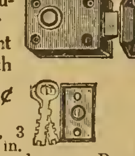
Cylinder night latch. A high grade, secure latch. Keys all different. Japanned iron case. Size, 3⅝ by 2⅜ inches. Brass knob and cylinder. For doors ⅞ to 2¾ inches; opening in or out: two strikes. Screws included. Shipping weight, 1½ pounds.
84 C 3210 . . . . **$1.65**

Night Latch

$1.45

Japanned iron case. Size, 2 by 3 in. Brass plated knob, and cylinder. For doors ⅞ to 2 inches, opening in or out, two strikes. Keys all different. Shipping weight, 1½ pounds.
84 C 3208 $1.45

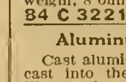
Tubular Night Latch



39¢

Size, 3 by 2 in. Japanned case. Bronze plated turn knob. Reversible, two strikes. Screws included. Shipping weight, 1 pound.
84 C 3206. . . . . **39¢**

Reversible Mortise Knob Latch



Size, 1¼ by 3⅛ inches. Brass front and strike plate; bronze bolt. Knob not included. Cannot be used with a key. Shipping weight, 8 ounces.
84 C 3221 . . . . **33¢**

Aluminum House Numbers

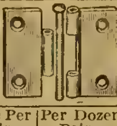
Cast aluminum, finely polished. Tacks cast into the back. Height, 3 inches. Figures, 0 to 9. Shipping wt., each, 1 oz.
84 C 3286—Each. . . . . **10¢**

Light Steel Butts

Wrought Steel Butts. Antique copper finish. For cabinet work, china closets and doors. With screws to match. Loose pin. Shipping wts., per pair, 4 and 6 ounces.
84 C 3625—Size, Open 2 by 2. Per pair. **19¢**
Size, Open 2½x2½. Per pair. . **21¢**

Nickel-plated With Screws to Match
84 C 3626—Size, 2½ by 2 in. Per pair. **25¢**
Size, 3½ by 3½ inches. Per pair. . . . . **39¢**

Light Narrow Butts



Plain wrought steel. Loose pin. Screws not included. Shipping weights, per pair, 4 to 6 ounces.
84 C 3634—State size.

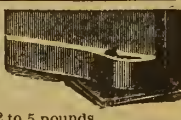
Length Inches	Size Open	Size Screw	Price Per Pair	Per Dozen Pairs
1½	1 7/16 in.	5	6¢	$ .55
2	1 9/16 in.	6	7¢	.66
2½	1 11/16 in.	6	9¢	.88
3	2 in.	6	12¢	1.10

Narrow Steel Butts

Plain wrought steel butts, fast joints. Screws not included. Shipping weights, per pair, 2 to 8 ounces.
84 C 3636—State size.

Size	Size of Screws	Price Per Pair	Per Dozen Pairs
1 inches	3	3¢	$ .33
1½ inches	5	4¢	.45
2 inches	5	6¢	.65
2½ inches	6	7¢	.75
3 inches	7	9¢	1.07

Floor Spring Hinges



Double acting. Ball bearing. Fitted into corner of door. Concealed by plate. Srews included. State size and finish. Shipping weights, 2 to 5 pounds.

For Doors Thickness Inches	84 C 3680 Japanned Each	84 C 3681 Bronze pla'd Each	84 C 3682 Cop. Fin. Each
1⅛ to 1¾	$ .95	$1.25	$1.26
1¾ to 2¼	1.25	1.55	1.56

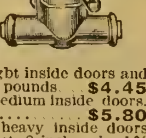
Double-Acting Spring Hinges

Swing both ways. Have adjustable covered tension springs. Easily applied and substantially constructed. Japanned (black) steel. Screws included.

Size In.	Thickness of Door In.	Shipping Weight	84 C 3671 Per Pair
3	¾ to 1	4 lbs.	$1.85
4	⅞ to 1¼	4½ lbs.	2.40
5	1 to 1½	6 lbs.	3.00
6	1⅛ to 1¾	8 lbs.	4.20

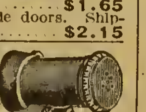
$1.85

Easy Acting Door Checks



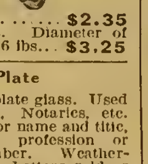
Quietly and automatically close the door and keep it under control. For right or left hand doors. Automatic regulating valve. Anti-freezing liquid oil. Gold bronze finish. Screws included.
84 C 3726—Size A. For light inside doors and screen doors. Ship. weight, 7 pounds. . . **$4.45**
84 C 3727—Size B. For medium inside doors. Shipping weight, 9 pounds. **$5.80**
84 C 3728—Size C. For heavy inside doors and outside doors up to 2 feet, 8 inches, by 1¾ inches. Shipping weight, 11 pounds. **$6.85**
84 C 3729—Size D. For heavy doors up to 3 feet by 7 feet 2 inches. Ship. wt., 14 lbs. . . **$8.25**

Eclipse Door Springs



For right or left-hand doors. Tension is adjustable. Lacquered brown. Screws and directions included.
84 C 3720—For inside or light outside doors. Shipping weight, 5 pounds. **$1.65**
84 C 3721—For heavy outside doors. Shipping weight, 6 pounds. **$2.15**

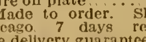
Eclipse Door Checks



With detachable feet. Adjustable. For use with Eclipse spring. Lacquered brown. Screws included.
84 C 3722—For ordinary doors. Diameter of cylinder, 1¾ inches. Shipping weight, 3 pounds **$2.35**
84 C 3723—For heavy doors. Diameter of cylinder, 2¼ inches. Ship. wt., 6 lbs. . . **$3.25**

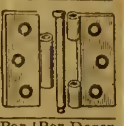
Handsome Name Plate

For Front Door, Gate or Mail Box



Chipped plate glass. Used by Doctors, Notaries, etc. Name only or name and title, address or profession or house number. Weatherproof. Heavy plate glass front. Letters gold or silver on black background. Size varies from 2 by 8 inches to 3 by 8 inches.
284 C 3287—Print clearly the lettering you desire on plate. . . . . **90¢**
Made to order. Shipped from Factory in Chicago. 7 days required. Postage prepaid. Safe delivery guaranteed.

Plain Wrought Butts



Wrought steel reversible butts, with polished surface. Screws not included. Shipping weights, per pair, 4 to 6 ounces. **State size.**

84 C 3632

Size Open	Size of Screws	Price Per Pair	Per Dozen Pairs
3 x2½ in.	No. 10	13¢	$1.43
3 x3 in.	No. 10	14¢	1.54
3½x3½ in.	No. 11	18¢	1.98
4 x4 in.	No. 11	23¢	2.53

Wrought Brass Butts

Brass Butts with fast joint. Screws not included.
84 C 3645—State size.

Size Inches	Ship. Wt., Per Pair	Size of Screw	Per Pair	Per Dozen Pairs
¾x ¾	3 oz.	2	4¢	$ .40
1 x ⅞	4 oz.	3	5¢	.50
1½x1	10 oz.	4	6¢	.60
2 x1⅛	1 lb.	5	10¢	.95
2½x1 9/16	1¾ lbs.	6	15¢	1.65

Butterfly Butts For China Cabinets and Cupboards

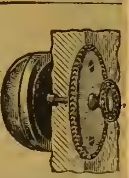
Plated Steel. Size, 2½ by 1⅞ inches. Shipping weight, per pair, 3 ounces.
84 C 3652—Antique Copper finish.
84 C 3653—Dull Lemon Brass finish.
Per pair. . . . . **$ .15**
Per dozen pairs **1.65**

Electric Push Button

Solid bronze front. Size, about 4 by 2⅝ inches. A decidedly handsome push button which will not rust.
84 C 2918—Antique Copper finish. . . . . **60¢**
84 C 2919—Dull Lemon Brass finish. . . . . **60¢**

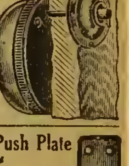
For Wire, Bells, etc., See Index

Rotary Door Bell



Rings like an electric bell by simply turning the knob. Diameter of gong, 3 inches; nickel-plated steel. Complete with bronze plate and turn, polished antique copper finish, with square bar connecting bell with turn, which may be cut to length. Size of plate, 1½ by 4 inches. Shipping weight, 1½ pounds.
84 C 4718. . . . . **50¢**

Push Button Door Bell



Easily attached to the door casing. Needs no winding or battery. Diameter of gong, about 4 inches. Nickel-plated, with polished solid bronze push button. Shipping weight, 2 pounds.
84 C 4710. . . . . **90¢**

Glass Push Plate

48¢ each

Clear plate glass with bevel edges. Screws included. A design that is simple but attractive. One which will harmonize well with any lock set. Does not tarnish. Size, about 3 by 12 inches. Shipping weight, 6 ounces.
84 C 3178. . . . . **48¢**

Metal Push Plate

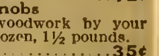
20¢ each

Size, about 2¾ by 10 inches. Screws included. Ship. wt., 6 oz.
84 C 3172—Solid Brass. Antique copper plated. . . . . **45¢**
84 C 3173 — Solid brass. Dull lemon brass color. . . . . **45¢**
84 C 3175—Stamped Steel. Antique Copper Plated. . . . **20¢**

Automatic Door Holder Will Not Mar Floor

Locks and releases by foot. Will not injure the floor. Length, 4¼ inches; bolt has 1¼-inch drop. Rubber tip. Shipping weight, 12 ounces.
84 C 3692—Amber bronzed finish. . **35¢**
84 C 3693—Polished antique copper finish. . . . . **60¢**
84 C 3694—Dull lemon brass finish . . . . **60¢**

Steel Base Knobs

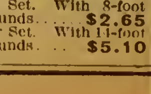


Rubber button. Length, 2¾ inches. Shipping weight, 3 ounces.
84 C 3251—Polished antique copper plated. . . . . **12¢**
84 C 3252—Lemon brass plated. . . . . **12¢**

Wood Base Knobs

To be finished same as woodwork by your painter. Shipping weight, per dozen, 1½ pounds.
84 C 3253—Per dozen. . . . . **35¢**

Parlor Door Hangers



Steel wheels with fiber tread, brass bushings. Track is notched and may be broken 6 and 12 inches from ends. Hangers, screws, roller guides, stops and track included.
189 C 3704—Single Door Set. With 8-foot track. Shipping weight, 10 pounds. **$2.65**
184 C 3702—Double Door Set. With 14-foot track. Shipping weight, 20 pounds. . . **$5.10**

Send for our FREE Building Material Catalogue

Corbin Ball-Bearing, Pin Tumbler Cylinder Padlock

$1.45

Made from a solid block of heavy brass which is bored out to receive the mechanism. Finely made and finished. Heavy wrought spring shackle. Two nickel silver keys to each lock. No two locks alike. Shipping weights, 6 and 12 ounces.

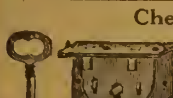
84 C 3997—1⅜ inches wide.......$1.45
84 C 3998—1¾ inches wide....... 1.95

Brass R. F. D. Padlock

Cast brass case with brass chain. Self-locking. Two keys. Master key furnished with each dozen locks. Width, 1⅝ inches. Shipping weight, each, 6 ounces.

84 C 3988—Each..................$ .45
Per dozen......................... 4.95

Chest Locks

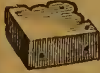


One key with each lock. Shipping weights, 1 and 4 ounces.
84 C 4012—Width, 1½ in. Key pin, ½ in. from top. Brass face..............25¢
84 C 4015—Width, 2½ in. Key pin, ⅞ inch from top. Brass..37¢

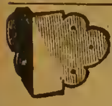
A strong iron lock which is self-locking. One key furnished. Has a brass escutcheon. 3⅞ inches wide, 2¼ inches deep. Shipping weight, 8 ounces.
84 C 4026......75¢

Brass Box Corners

Medium weight. Size, 1¾ by 1¾ inches. Screws included. Shipping weight, per package of 4, 4 ounces.
84 C 4216—Per package of 4. 45¢



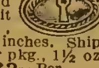
Size, 2½ by ¾ inches. Extra heavy brass. Screws included. Shipping weight, per package of 4, 11 ounces.
84 C 4217—Per package of 4 ....$1.25



Size, 2½ by 2½ inches. Extra heavy brass. Screws included. Shipping weight, per package of 4, 11 ounces.
84 C 4218—Per package of 4 ....$1.15

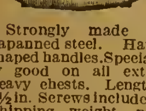
Escutcheons

Polished cast brass, 2¼ by 1 inch. Shipping wt., per package, of four, 1 ounce.
84 C 4180—Per package of 4.....19¢



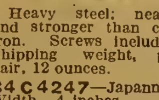
Heavy stamped brass. Gilt finish, 1¾ by 1⅛ inches. Ship. weight, per pkg., 1½ oz.
84 C 4182—Per package of 4.......22¢

Extra Large Chest Handles



Strongly made of Japanned steel. Have shaped handles. Specially good on all extra heavy chests. Length, 4½ in. Screws included. Shipping weight, per pair, 1½ pounds.
84 C 4245—
Per pair........43¢

Chest Handles

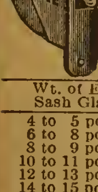


Heavy steel; neater and stronger than cast iron. Screws included. Shipping weight, per pair, 12 ounces.
84 C 4247—Japanned. Width, 4 inches.
Per pair..........35¢
84 C 4249—Polished; antique copper finish; width, 4 inches.
Per pair.........49¢

Trap Door Ring

Japanned steel plate, 3½ by 3¾ inches. Hinged handle fits into grooved recess. Screws included. Shipping weight, 10 ounces.
84 C 4255..............22¢

Spring Sash Balances



No Ropes Needed
Noiseless—Durable
Easy Acting

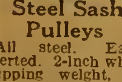
For houses where weights cannot be used. Steel tension spring and metal tape. Set consists of four balances, enough for two sash, or one complete window. State size wanted. Shipping weight, per set, of four, 7 pounds.

Wt. of Each Sash Glazed	Length of Tape	84 C 3571 Per set of 4
4 to 5 pounds	30 inches	$1.65
6 to 8 pounds	30 inches	1.75
8 to 9 pounds	30 inches	1.85
10 to 11 pounds	46 inches	2.00
12 to 13 pounds	46 inches	2.15
14 to 15 pounds	46 inches	2.35
16 to 17 pounds	46 inches	2.50
18 to 19 pounds	46 inches	2.60
22 to 23 pounds	46 inches	2.95

Iron Sash Pulleys

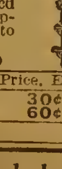
Cast iron; with round ends. Polished 2-inch wheel. Shipping weight, per dozen, 5 pounds.
84 C 3573—Per dozen...90¢

Steel Sash Pulleys



All steel. Easily inserted. 2-inch wheel. Shipping weight, per dozen, 2 pounds.
84 C 3575—
Per dozen.......50¢

Transom Lifter



30¢

Copper-plated steel rods. Shipping weights, 2 to 4 pounds.

84 C 3310

Lgth.	Dia Rod	Price, Ea.
4-Ft.	¼ inch	30¢
5-Ft.	5/16 inch	60¢

Steel Padlock

12¢

Wrought steel case. Ebony black finish. Malleable self locking shackle. Two flat steel keys. Width of lock, 2 inches. Shipping weight, 4 ounces.

84 C 3950........12¢
84 C 3952 — Large wrought steel. Ebony black finish. Brass mechanism. Width, 2½ inches. Shipping weight, 8 ounces. 18¢

Brass Plated Padlock

Wrought steel. Width 2¼ inches. With two keys that fit over the pin in key hole. A neat, serviceable lock. Shipping weight, 8 ounces.
84 C 3955 ...20¢

Six Lever Lock

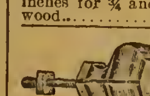
A good padlock which will give satisfactory service. Wrought steel case and chain. Japanned. Self-locking. Two keys. Width, 2 in. Shipping weight, 12 ounces.
84 C 3962—With chain ....40¢
84 C 3958 — Same as above, without chain. 25¢

Brass Chest Locks

Two keys with each lock. Shipping weight, 4 ounces.
84 C 4018 — Width, 2 inches for ¾-inch wood ....89¢
84 C 4019—Width, 2½ inches for ¾ and 1½ inch wood..............$1.10

A strong lock for larger size chests. Size, 2⅞ by 2 inches. Two keys furnished. For wood 1½, 1¼ or 1 inch. State size. Shipping wt., 5 oz.
84 C 4030 ..$2.15

Glass Drawer Knobs



Octagon glass knobs with bolts running through center. State size. Shipping weights, per package, of two, 8 ounces to 1 pound.

84 C 4196

Diameter	Per Package of 2
1 inch	37¢
1¼ inch	45¢
1½ inch	55¢

Brass Drawer Knobs

Brass knobs. With bolt and nut. Shipping weights, per pkg. of four, 2 to 6 ounces.

84 C 4193—

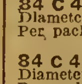
Diameter	1 inch	1¼ inch
Per package of 4	50¢	60¢

Small Brass Knobs

Polished; brass. Shipping weights, per pkg. of six, 1 to 6 ounces.

Diameter	½ in.	⅝ in.	¾ in.
84 C 4190— Per package of 6	20¢	25¢	30¢

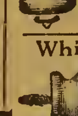
Wood Drawer Knobs



Hardwood. Unfinished, may be stained or finished any color. With screw and spur. Shipping weight, per package of four, 2 ounces.

Unfinished 84 C 4202— Diameter	1¼ in.	1¾ in.	2 in.
Per package of 4	8¢	10¢	13¢
Oak Finish 84 C 4201— Diameter	1¼ in.	1¾ in.	2 in.
Per package of 4	11¢	14¢	17¢
Mahogany Finish 84 C 4203— Diameter	1¼ in.	1¾ in.	2 in.
Per package of 4	12¢	15¢	18¢

Wooden Drawer Pulls



Black enamel wood drawer pulls with hinged drop handles. Attractive brass escutcheon furnished. Shipping weight, per package of four, 8 ounces.

84 C 4154—Per package of 4..48¢

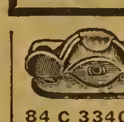
White Porcelain Shutter Knobs

With screws. State size.

84 C 4200

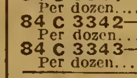
Diameter	¾ in.	1 in.	1½ in.
Ship. Wt.	2 oz.	4 oz.	9 oz.
Per package of 4.	12¢	13¢	22¢

Elbow Catches



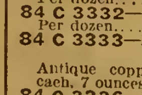
For inside of china closet and cupboard doors. Easily concealed. Japanned iron. Screws not included. Shipping weight, each, 3 ounces.
84 C 3480—Each........ 4¢

Steel Sash Fasteners



Draw the top and bottom sash tightly together. Stamped steel, will not break. Screws to match included. Shipping weight, per doz., 3½ pounds.
84 C 3340—Amber bronzed, Per dozen... 75¢
84 C 3341—Bronze plated, natural color.
Per dozen..............................90¢
84 C 3342—Antique copper plated.
Per dozen..............................90¢
84 C 3343—Dull lemon brass plated.
Per dozen..............................90¢

Plated Iron Sash Fasteners

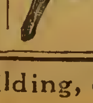


Draw the top and bottom sash tightly together. Screws to match included. Shipping weight, per doz. 3½ pounds.
84 C 3330—Brown, plain bronzed iron.
Per dozen..........................$ .83
84 C 3332—Antique copper finish.
Per dozen.......................... .90
84 C 3333—Nickel plated. Per dozen..1.10

Solid Brass

Antique copper polished. Shipping weight, each, 7 ounces. Each...............$ .40
84 C 3336—Per dozen.............. 4.40

Side Fasteners



Hold sash at any height, and prevent rattling. Ship. wt., each, 4 oz.
84 C 3360 — Iron, polished bronze plated. Each......$ .16
Per dozen............... 1.75
84 C 3361—Iron, polished copper plated. Each ....$ .16
Per dozen................ 1.75

Steel Padlock

25¢

Heavy wrought steel nicely Japanned. Is self-locking. Two corrugated flat steel keys included with each lock. Good, secure mechanism. Width, 2 inches. Shipping weight, 10 ounces.
84 C 3966...25¢

Corbin Padlock

$1.15

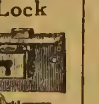
Rust-resisting, black finished heavy iron case. Brass self-locking shackle Two flat keys. Serviceable and secure outdoor lock. No two locks keyed alike. Width, 2 inches. Ship. weight, 18 ounces.
84 C 3983-With rustless chain......$1.35
84 C 3984— Without chain..........$1.15

Brass Padlock

Attractive and Secure

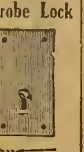
Brass case, self-locking steel shackle. Two corrugated steel keys. Width, 2 inches. A splendid lock for your garage or barn. Shipping weight, 1 pound.
84 C 3975............. 55¢

Cupboard Lock



An iron lock 2 5/16 by 1½ inches. 1 key furnished. Shipping weight, 2 ounces.
84 C 4045 ....10¢

Wardrobe Lock

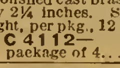


For right or left-hand doors. Size, 2 7/16 by 1¼ in. 1 key. Shipping weight, 3 ounces.
84 C 4055 ....10¢

Drawer Lock

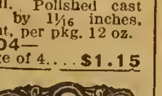
For ⅞ inch wood. To center of cylinder from top, ¾ in. 2 keys. Shipping weight, 3 ounces.
84 C 4038 — Iron; width, 1¾ inches.. 35¢
84 C 4039 — Brass; width, 2 inches..... 60¢

Tray Handles

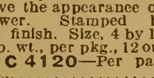


Width, 2 inches. Shipping weight, per pair, 4 ounces.
84 C 4158—Per pair....22¢

Brass Pulls



Polished cast brass. Size, 4 by 2¼ inches. Shipping weight, per pkg., 12 ounces.
84 C 4112—
Per package of 4.....60¢



A very rich and attractive drawer pull. Polished cast brass, 4⅝ by 1 1/16 inches. Ship. weight, per pkg. 12 oz.
84 C 4104—
Per package of 4....$1.15

A very neat and attractive drawer pull which will improve the appearance of any drawer. Stamped brass. Gilt finish. Size, 4 by 1⅜ in. Ship. wt., per pkg., 12 ounces
84 C 4120—Per package of 6.................35¢

Drawer Pulls

Solid Bronze

Screws included. Shipping weight, per dozen, 1 pound.
84 C 3501—Polished antique copper finish on bronze. Size, 3½ inches. Per dozen.......95¢
84 C 3502—Dull lemon brass finish on bronze. Size, 3½ inches. Per dozen..............95¢
84 C 3503—**Nickel plated** and polished on brass. Size, 3¼ by 1½ inches. Each...... 6¢
84 C 3505—Polished antique **copper plated** on steel. Size, 3¼ by 1¼ inches. Per dozen. 38¢
84 C 3506—Dull lemon **brass plated** on steel. Size, 3¼ by 1¼ inches. Per dozen..38¢

Cupboard Turns

Size, 2⅛ by 2¼ in. Screws included. Shipping weight, 6 ounces.
84 C 3470—Antique copper finish on steel, each. 12¢
84 C 3472 — Lemon brass finish on solid bronze, each .... 45¢

84 C 3473—**Nickel plated** on brass. Polished. Size, 1½ by 1½ inches. With screws. Shipping weight, 4 ounces, each...............50¢

Antique copper finish wrought steel. Size, 2¼ by 1⅝ in. Screws included. Shipping weight, 3 ounces.
84 C 3460—Each .....9¢

Sash Lifts

84 C 3430—Polished antique copper plated 3½ inch cast bar. Shipping weight, each 5 ounces.
Each .... 5¢ Per dozen ..... 55¢
84 C 3432—As above except dull lemon brass plated. Each..... 5¢ Per dozen....... 55¢
84 C 3434—Nickel plated 3-inch bar. Shipping weight, each, 4 ounces.
Each............. 9¢ Per dozen ......98¢

Hook Sash Lifts

Beveled edge; screws included. Size, 1⅝ by 1¼ inches. Shipping weight, per dozen, 14 ounces.
84 C 3420 — Antique copper on steel. Per dozen...........27¢
84 C 3422—Dull lemon brass on steel. Per dozen.........27¢
84 C 3421—Antique copper on brass. Per dozen .... .40¢

With Screws

Window Stop Adjusters

Will not bend: slotted concave brass washer permits close adjustment; 1-inch plated screws to match. Shipping weight, per dozen, 5 ounces.
84 C 3400 — Polished bronze finish. Per dozen. ....$ .20
Per gross 2.15
84 C 3401—Antique copper finish.
Per dozen.......................... .20
Per gross.......................... 2.15

Sash Cord

Extra quality, braided long fiber cotton, sold only in bundles of about 100-feet. Prices subject to change.

Art. No.	Size	Diam.	Ship. Wt.	Bundle
84 C 3587	7	7/32	1¾ lbs.	$ .80
84 C 3588	8	8/32	2½ lbs.	1.05
84 C 3589	10	10/32	3 lbs.	1.35

Keyless Combination Padlock

80¢

A good combination lock which will last a long time. No keys to lose. No tumblers, rivets, springs, bolts to get out of order. Diameter, 1¾ inches. Shipping weight, 7 ounces.
84 C 3995—
Nickeled.........80¢
84 C 3996 — Same as above, except solid brass. Shipping weight, 10 ounces. 90¢

Brass Padlock

An extra heavy padlock made entirely of brass. Self-locking. With keyhole cover. Width, 2 in. With chain and two brass keys. Excellent for boats and in all exposed places. Nothing to rust. Shipping weight, ¾ pound.
84 C 3968..........75¢

Trunk Locks

Of Japanned Iron

35¢

Size, 4 by 3 inches. 1 key. Japanned iron. Shipping weight, 8 ounces.
84 C 4070....35¢

Of Solid Brass

$1.25

Solid brass. Size, closed, 6¼ by 1¾ inches. 2 keys. Shipping weight, 14 ounces.
84 C 4072...$1.25

Steel Chain Bolt

Wrought steel; reversible; length, 6 inches; bolt, ¾ inch; with 2 feet of chain and screws. Shipping weight, 1½ pounds.
84 C 3544 Japaned finish. ....60¢
84 C 3545 Old copper finish.... 70¢

Steel Foot Bolt

6 - inch plate. Bolt ⅝ inch; screws included: shipping weight, 1¼ lbs.
84 C 3546 Japanned. ...55¢
84 C 3547 Old copper. 60¢

Mortise Door Bolt

With bronze knob and escutcheon. Length of bar, 2½ inches. Shipping weight, 8 ounces.
84 C 3516—Polished bronze finish......25¢
84 C 3517—Antique copper finish.......25¢
84 C 3518—Lemon brass finish ....25¢

Safety Door Chain

Wrought steel, plated. 6¼ by 1⅜ inch plate. With screws. Shipping weight, 10 ounces.
84 C 3531—Antique copper finish........35¢
84 C 3538—Dull lemon brass finish.....35¢

Steel Barrel Bolt

Japanned; steel plate brass knob, with flat staple; screws not included. Shipping weights, 6 to 12 ounces.

Length	3 in.	4 in.	5 in.	6 in.
84 C 3520—Each.	$ .10	$ .12	$ .14	$ .16
Per dozen	1.10	1.30	1.45	1.75

Cellar Bolt

Wrought steel, Japanned. Screws not included. Length, 2½ in. Ship. wt., ea. 4 oz.
84 C 3528—Each..$ .10
Per dozen.......... 1.10

Cellar Window Set

6 Pieces—with Screws

Consisting of one pair of 2-inch steel butts, one cellar window fastener, and one 2½ inch wire hook and eye, all Japanned to prevent rust. Screws included. Shipping weight, per set, 10 ounces.
84 C 3663—
Per set...............................$ .15
Per dozen sets......................... 1.65

Casement Fasteners

For right or left hand. Size, 1½ by 1½ in. Screws included. Shipping weight, each, 6 ounces.
84 C 3372—Polished antique copper plated.
Each.................................$ .15
Per dozen............................ 1.75
84 C 3374—Dull lemon brass plated.
Each................................. .15
Per dozen............................ 1.75

Casement Adjusters

For windows opening out. Reversible steel 12-inch rod with swivel post and set screw; with screws. Shipping weight, each, 1 pound.
84 C 3380—Polished antique copper plated.
Each.................................$ .40
Per dozen............................ 4.50
84 C 3382—Dull lemon brass plated.
Each................................. .40
Per dozen............................ 4.50

Cremorne Bolts

For French Windows and Doors

Heavy plated knob and sockets, complete with 8 feet of half oval plated steel rod. May be cut any length. Bolt locks into sockets at top and bottom when knob is turned. Shipping weight, per set, 3 pounds.
84 C 3384—Polished antique copper finish. Per set...............$2.85
84 C 3385—Bright bronze finish.
Per set..................... 2.85
84 C 3386—Lemon brass finish.
Per set..................... 2.85

Window Spring Bolts

Malleable iron, tinned, with tin case. Length. 3⅜ inches. Shipping weight, per doz., 1 lb.
84 C 3390—Per dozen...........38¢

If you do much building, own your own Concrete Mixer. See Page 645

D Handle Shovel

Hard steel blade, 9½ by 11¾ inches. Square Points. Shipping weight, 5 pounds.
484 C 5679—Socket strap. Full polished finish...$1.15
484 C 5680—Hollow back. Black finish. 80¢

Coal Shovel

Hollow back. D handle. An excellent sand, grain or coal shovel. Blade, 12 by 14 inches. Black finished steel. Shipping weight 5½ pounds.
484 C 5688 ..90¢

Steel Spade

Handle riveted into strong socket strap shank. Blade is hard steel with square points. Size, 7⅛ by 12 inches. Hardwood D handle.
Shipping weight, 5¼ pounds.
484 C 5700 ...98¢

Long Handle Spade

Socket strap. Square point. Blade 7½ by 12 inches. Hard steel blade, smoothly polished. Shipping weight, 5 pounds.
184 C 5708 ..$1.10

Post Hole Spade

Socket strap. Square point D handle. Concave hard steel blade, 5¾ to 6 inches wide. Full polished. Shipping weight, 5½ pounds.
484 C 5706 Length, 18 in. $1.35
484 C 5707 Length, 20 in. $1.45

Drain Spade

Socket strap. Round point. D handle Concave blade. Hard steel. Full polished finish. Blades taper from 5¾ to 4½ in. wide. Shipping weight, 5½ pounds.
484 C 5704 Length, 18 in. $1.33
484 C 5705 Length, 20 inches. $1.43

Steel Shovel

Socket strap. Round point. D handle. Blade 9¼ by 12¾ inches. Hard steel. Full polished finish. Shipping weight, 5 pounds.
484 C 5685 $1.15

Long Handle Shovel

Round point. Long handle. Full polished steel blade. 9½ by 12 inches. Shipping weight, 5¼ pounds.
184 C 5719 Plain back $1.18
184 C 5721 Hollow back .....75¢

Solid Socket Shovel

Maynard pattern. Forged socket. Round point. Long handle. Full polished hard steel blade 9½ by 12 inches.
Shipping weight, 6 pounds.
184 C 5725 ..$1.48

Grain and Coal Scoop

Western Pattern. Hollow back. Full polished Ship. wt., 6¼ to 8 pounds.
484 C 5690 13-inch blade. $1.15
484 C 5691 13⅝-inch blade. $1.30
484 C 5692 14¾-inch blade. $1.45

Furnace Scoop

48¢

Most practical scoop for the furnace. Hollow back. Square point. Wood D handle. Blade, 9 by 14 inches. Black finished steel.
Shipping weight, 4½ pounds.
484 C 5732 ...48¢

Coke Fork

$1.98

Flat tipped. Steel tines. Shipping weights, 8 to 9 pounds.
484 C 5740—10 tines, 14 inches wide. .. $1.98
184 C 5741—12 tines, 18 in. wide. ..$2.35
184 C 5742 14 tines, 20½ in. wide. $2.75

Lakeside Ensilage Fork

$1.95

Good for general barn use. 10 polished oval tines, 17 inches long. Sharp points. Strapped ferrule and malleable D handle.
Shipping weight, 8 pounds.
184 C 5748 $1.95

Lakeside Manure Fork

12-inch polished steel tines. Malleable D handle. Strapped ferrules. Shipping weight, 4 pounds.
484 C 5844—4 tines..$1.15
484 C 5845 5 tines ..$1.30
484 C 5846 6 tines ..$1.45

Vegetable Fork

Hard steel round tines with flat tips. Strap ferrule. D handle. Ship. wt., 8½ lbs.
184 C 5743 8 tines, 12½ inches wide $1.65
184 C 5744 10 tines, 15 inches wide. $1.95
184 C 5745 12 tines. 17¾ inches wide. ..$2.35

Lakeside Spading Fork

Four heavy diamond-back, steel tines, 11½ inches long. Bent handle. Strapped ferrule. Shipping weight, 5 pounds.
484 C 5852 With steel D top $1.25
484 C 5850 Polished points Malleable D handle .....78¢

General Purpose Shovel

A good general purpose shovel, handy and useful for light work. Makes an excellent snow shovel. Blade, 11½ by 14 inches. Black finished steel.
Shipping weight, 5 pounds.
184 C 5730 ...47¢

Snow Shovel

Galvanized steel strong angle braces riveted on back. Length over all, 51 inches. Ship. wt., 6 lbs.
184 C 5734 Blade 17 by 15½ in. ....95¢
184 C 5735 Blade 21 by 16 inches. $1.05

Steel Grain Scoop

Sheet steel, extra strong, light and durable. Will outwear several of the ordinary iron scoops.
184 C 5754 — Half-bushel scoop. Shipping weight, 8½ pounds. $1.95
184 C 5755 — One-bushel scoop. Shipping weight, 9½ pounds.........$2.25

Lakeside Manure Hook

With 4 bent oval steel tines. Width, 8 inches. White ash handle, about 5½ feet long. Shipping weight, 3 pounds.
184 C 5858..............95¢

Lakeside Potato Hook

Steel tines about 6½ inches long. Extra quality handle 4½ feet long. Shipping weight, 3½ pounds.
484 C 5855—With **four diamond back** steel tines.........73¢
484 C 5856—With **five oval** steel tines, goose neck shank..........94¢

Grain Cradle

Strictly first grade. With four fingers, wire braces, and ring fasteners. Complete with 46-inch steel scythe. Shipping weight, 12 pounds.
184 C 6024.........$4.25

Bush Hook

With heavy forged steel blade, polished edge. Full size hickory handle. Length, about 36 inches. Shipping weight, 4 pounds.
484 C 6075...................$1.35

Clipper Pattern Grass Scythe

95¢

Size 30 to 34 inches long. Solid steel, black finish, with ground edges. Shipping weight, 3 pounds.
484 C 6010...................95¢

Weed Scythe

Length, 26 to 30 inches. Solid steel. Black finish with ground edges. Ground sharp. Shipping weight, 3 pounds.
484 C 6016...................$1.05

Bush Scythe

Length, 18 to 22 inches. Solid steel. Black finish with ground edges. Ground sharp. Shipping weight, 3 pounds.
484 C 6018...................$1.05

Scythe Snath

Made of selected seasoned wood. Patent loop and wrench. Length, 58 inches. Shipping weight, 3½ pounds.
484 C 6020...................$1.30

Two-Ring Scythe Snath

For extra heavy, bush or weed use. Made from selected stock. Finished and varnished. Two-ring fastener. Length, 58 inches. Shipping weight, 6½ pounds.
484 C 6021...................$1.40

Scythe Stones

84 C 6028—Flat, natural stone, octagon shape. Length, 10 inches. Shipping weight, 6 ounces..................7¢
84 C 6029—Oval emery. Length, 10 inches. Shipping weight, 6 ounces...............9¢

Lakeside Manure Fork

With 12-inch tines, 4½-foot bent handle. Strapped ferrules. Shipping weight, 4 pounds.
184 C-5834—4 tines. $1.00
184 C-5835 5 tines.....$1.30
184 C 5836—6 tines. $1.45

Lakeside Hay Forks

Our highest quality Hay Forks. Guaranteed to give satisfaction. Have 12-inch polished steel tines and strapped ferrule. Shipping weight, 3 pounds.

3 Tine Forks with Bent Handles

Number	Handle	Price
184 C 5800	4 ft.	$ .85
184 C 5801	4 ft.	1.00
184 C 5802	5 ft.	1.10
184 C 5803	5 ft.	1.20

4 Tine Forks with Bent Handles

Number	Handle	Price
184 C 5815	4 ft.	1.10
184 C 5816	5 ft.	1.20

184 C 5809—5 feet straight handle. With four steel tines..........95¢

Lakeside Alfalfa or Header Fork

Four 15-inch polished steel tines. Bent handle. Strapped ferrule. Shipping weight, 4 pounds.
184 C 5820—4½-foot handle...$1.45
184 C 5821—5-foot handle.......$1.50

Lakeside Extra Quality Barley Fork

Four 18-inch tines. Bent handles. Strapped ferrules. With steel wire bail. Shipping weight, 4½ pounds.
184 C 5826—5-foot handle..... $1.65
134 C 5827—5½-foot handle........$1.75

Garden Socket Hoe

Lakeside, extra quality hoe with polished steel blade. Solid socket shank holds handle securely. Hardwood handle. Length, about 4½ feet. Shipping weight, 3 pounds.
484 C 5880—Width, 6½ inches.......70¢
484 C 5881—Width, 7½ inches.........75¢

Garden Shank Hoe

Standard grade. Polished. 6½-inch steel blade. Plain ferrule. Length, handle, about 4½ feet. Shipping weight, 2 pounds.
484 C 5884....50¢

Garden Hoe

Polished steel 6½-inch blade. Riveted to shank, 4½-foot handle. Shipping weight, 2½ pounds.
484 C 5888..48¢

D Handles

Shipping weight, each, 2 pounds.
484 C 5780—Fits any D handle shovel..45¢
484 C 5781—Fits any D handle spade...44¢
484 C 5782—Fits any size scoop shovel .46¢

Malleable D Head Handle

Center pin extends through. Riveted at ends. Fork or shovel handles. Shipping weight, ½ pound.
84 C 5786..................18¢

Straight Fork Handle

Selected ash. Shipping weights, 2 to 3 pounds.

Length	5 feet	5½ feet	6 feet
484 C 6130	30¢	36¢	47¢

Bent Fork Handle

Second growth ash. Shipping weights, 1½ to 2¼ pounds.

Length	4 ft.	4½ ft.	5 ft.	5½ ft.
484 C 6132—For manure forks	25¢	28¢	..	..
484 C 6131—For Hay forks	25¢	23¢	32¢	37¢

Steel Ferrules

Shipping weight, per doz. 3 pounds.
84 C 6134—
Each..........$ .15
Per dozen 1.70

Ferrule Caps

For end of ferrules. Shipping weight, per dozen, 8 ounces.
84 C 6135—
Per dozen .... 40¢

Sidewalk Scraper

Solid steel 6-inch blade. Forged socket. 4½-foot handle. Shipping weight, 4 pounds.
484 C 5912.........................65¢

Millstone Dressing Pick

Tempered steel, oil finish. Oval eye for wood handle. State size. Shipping weights, 2 to 5 pounds.

Weights	1½ lbs.	2 lbs.	2½ lbs.	3 lbs.
84 C 6105	65¢	90¢	$1.10	$1.30

Railroad Pick

Forged steel, black finish, with tempered points. Length, about 25 inches. Large oval eye. Shipping weight, 7 pounds.
484 C 6100..............................70¢

Railroad Pick Handle

Length, 36 inches. Shipping weight, 2 pounds.
484 C 6101..............................25¢

Steel Mattock

Forged steel. Black finish. Polished sharpened edges. Without handles. Shipping weight, 7 pounds.
484 C 6116 — **Long Cutter.** Size of blade, about 8½ by 4¼ inches. Size of cutter, about 6 by 2 inches......................65¢
484 C 6117—**Short Cutter.** Size of blade, about 8½ by 4¼ inches. Size of cutter, about 4½ by 3 inches...................55¢

Hickory Handle

To fit above mattocks. Length, 36 inches. Shipping weight, 2 pounds.
484 C 6101..............................25¢

Adjustable Cultivator Hoe

REMOVABLE REVERSIBLE PRONGS

For cultivating vegetable and flower gardens. The spring tempered ¼-inch steel prongs are adjustable and reversible. Length, handle, 4½ feet. Shipping weights, 2½ and 3 pounds.
484 C 5900—With 3 prongs................65¢
484 C 5901—With 5 prongs................75¢

Weeding Hoe

Steel blade. Width, 3½ inches. Two prongs. Bronze finish. Length of handle, 4½ feet. Shipping weight, 2½ pounds.
484 C 5894............30¢

Forged Steel Planters' Hoe

PLANTERS HOE

Oval eye. 2 by 1¾-inch steel blade. Weight, 1⅞ pounds. Without handle. Shipping weight, 2 pounds.
84 C 5904—7 inches wide....45¢
84 C 5905—8 inches wide..............50¢

Handle for Planters' Hoe

484 C 5907—5 feet long. Shipping weight, 3 pounds..................................35¢

Grub Hoe

Forged steel, black finish, polished edge.
84 C 6114—Width, 3½ inches. Shipping weight, 4 pounds....60¢
84 C 6115—Width, 3¾ inches. Shipping weight, 4½ pounds.......................70¢
484 C 6101—Hickory handle, 36 inches long. Shipping weight, 2 pounds..............25¢

Hazel Hoe

Forged steel. Width, 6 inches. Shipping weight, 3½ pounds.
84 C 6110...............80¢

Handle for Hazel Hoe

Hickory. Length, 54 inches. Shipping weight, 2¼ pounds.
484 C 6111.........................35¢

Garden Trowel

Steel garden trowel. Extra quality. Length of blade, 6 inches. Shipping weight, 10 ounces.
84 C 5920...............................8¢

Weeder and Hoe

Four steel tines. Steel hoe blade. Length, 11 inches. Shipping weight, 12 ounces.
84 C 5930...................25¢

Handy Garden Set

Each tool made in one piece, of heavy pressed steel, black enamel finish. Ground polished points. Two trowels with 6-inch blades and one weeder. Shipping weight, per set, 2 pounds.
84 C 5931—Per set.................65¢

Turf Edger

Polished steel blade. Solid shank with 4-foot handle. For trimming and removing sod. Shipping weight, 3 pounds.
484 C 5910...................75¢

Upright Hay Knife

Blade made from the best tool steel. Has a draw cut, works easily and rapidly. Shipping weight, 5 pounds.
484 C 6084.........................$1.25

Corn Husker

Fitted with heavy steel hook and shield on tough mule-skin leather. Wide wristband. Shipping weight, each, 4 ounces.
84 C 6043—Each........................45¢

Corn Husker

Heavy steel plate with two adjustable steel hooks. Extra wide heavy leather wristband, three straps and buckles. A very strong, heavy husker for hard use. Shipping weight, each, 6 ounces.
84 C 6048—Each........................50¢

Pin Husker

The slack is adjusted by means of clamp and nut, has sliding center sleeve. Ship. wt., 2 oz.
84 C 6042—Each.....................35¢

Lightning Pattern Hay Knife

Forged steel, polished edges, well made. Shipping weight, 5 pounds.
484 C 6082.........................$1.45

Sickle Edge Hay Knife Adjustable Handle

Cutting edge is made in sections, riveted to strong metal back. Has toothed edge, which is always sharp. Shipping weight, 5 pounds.
484 C 6080...................$2.15

Corn Knife

84 C 6064 New cut steel blade, beveled cutting edge, 16 by 3 inches. Hardwood handle. Shipping weight, 1½ lbs..35¢
84 C 6065—Steel blade, 16 by 3¼ inches. Fashioned smooth wood handle, riveted through blade. Shipping weight, 1½ pounds..............40¢

Long Tree Pruners

Steel blade and head. Wood pole and lever. Pruning easily done while standing on the ground. Shipping weights, 2¼ to 2½ pounds.
184 C 6000—State size.

Length	Price
Length, 6 feet	$ .98
Length, 8 feet	1.10
Length, 10 feet	1.15
Length, 12 feet	1.20

84 C 6003—Extra knives for above pruners. Ship. wt., 3 oz. Each .15¢

Extra heavy malleable iron head. Strong steel blade.

84 C 6002—Head only without pole or rope. $1.10

84 C 6004 — Extra springs for No. 6002 head only. Shipping weight, 2 ounces Each. .....10¢

For Use on Pole $1.10

Standard Pruning Shears

Steel blades, iron handles and flat brass spring. Also used as sheep toe clippers. Length, 9 inches. Shipping weight, 14 ounces.
84 C 5950.....................44¢

Ratchet Lock Shears

With improved ratchet lock nut to take up wear. Steel blades, iron handles. Length, 9 inches. Shipping weight, 18 ounces.
84 C 5958.......................80¢

Ratchet Lock Shears

California Pattern Pruning Shears. Full polished. Improved ratchet lock nut. Extra quality polished steel blades. Brass spring. Length, 9 inches. Shipping weight, 18 ounces.
84 C 5960.........................$1.45

Swiss Pruning Shears

Crucible steel blades. Double brass springs. Ratchet lock adjusting nut. Full polished malleable handles. Length, 8½ inches. Shipping weight, 1 pound.
84 C 5964.....................$1.95

Hedge Knife

Forged steel blade with hickory handle, riveted through ferrule and shank; length of blade, 16 inches. Shipping weight, 4½ pounds.
484 C 6074.........................98¢

Pruning Shears

Forged steel blades with iron ferrule riveted on. Length, 26 inches. Shipping weight, 3¼ pounds.
84 C 5996........$1.35

Pruning Shears

Popular Buckeye pattern. Forged steel blades with iron ferrule riveted on. Length, 26 inches. Shipping weight, 3 pounds.
84 C 5990....... $1.25

Hedge Shears

Steel blades. Notched for cutting large branches. 12-inch hardwood handles. Shipping weights, 4 and 6 pounds.

Blade size	8 inches	10 inches
84 C 5994	$1.50	$1.90

Double Edge Pruning Saw

Spring steel blade, length 18 inches. Handy for many purposes. Shipping weight, 3 pounds.
84 C 5975.........................75¢

Swivel Blade Pruning Saw

Steel frame, hardwood handle. Blued steel 18-inch blade. Filed and set. Shipping weight, 1 pound.
84 C 5972.....................$1.65

Pruning Hook and Saw

Polished steel 18-inch saw with malleable iron socket and steel pruning knife blade. Saw blade detachable. Wood pole not included. Shipping weight, 1½ pounds.
84 C 5970..................$1.98

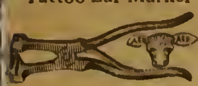
Dependable Insecticides are listed on Page 387

Cattle Marking Punch

For marking ears. Dies are hollow and cut easily. Always state number of die you want, as shown. Length, 11 inches. Illustrations are about one tenth actual size. Shipping weight, 2 pounds.

84 C 6282—Punch with one die $2.90

Tattoo Ear Marker



For tattoo branding the inside of ear. Letters interchangeable. Height of letter, 7/16 inch. Directions for marking on each bottle of tattoo ink. Marker with any three letters or figures. State plainly letters or figures wanted. Shipping weight, 1½ pounds.

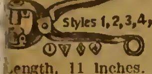
84 C 6285.........................$1.60
84 C 6286—Extra letters or figures. Shipping weight, 1 ounce.........................25¢

Tattoo Ink

One bottle will mark 500 ears. Bottle contains ounces. Shipping weight, 6 ounces.

84 C 6287—Black—Per bottle..........45¢
84 C 6288—Red—Per bottle............45¢

Interchangeable Marker



Stock marking punch with interchangeable tempered dies. Japanned iron handle with concealed coil spring. Length, 11 inches. With one die (give style of die). Shipping weight, 2 pounds.

84 C 6290..........................$1.50
84 C 6291—Extra dies (state style). Shipping weight, each 2 ounces. Each..............38¢

Oval Hole Ear Punch

84 C 6303—For sheep and hog labels. Shipping weight, 14 ounces.....85¢
84 C 6304—For extra large cattle labels. Shipping weight, 1½ pounds. $1.40

Metal Ear Labels

Stamped to order. Require 7 days for delivery. Apply with oval hole ear punch above. Write plainly numbers and letters to be stamped. Size 1 takes 11 large letters or numbers; sizes 2 and 3 take 15 large letters or numbers or 22 small letters for name and address. Postage is prepaid.

With name only or number only	100 for	50 for	25 for
284 C 6305—Size 1, Sheep or Hog	$1.05	$ .80	55¢
284 C 6306—Size 2, Cattle	1.60	1.10	65¢
284 C 6307—Size 3, Large Cattle	1.90	1.35	90¢
With name and number			
284 C 6300—Size 1, Sheep or Hog	$1.60	$1.05	$ .70
284 C 6301—Size 2, Cattle	2.10	1.35	.80
284 C 6302—Size 3, Large Cattle	2.60	1.60	1.10

Aluminum Ear Buttons

Diameter, about ¾ inch. Clinch securely. We can place name and address (not to exceed 19 letters), on top, and number on lower side of button. State plainly name or address to be stamped. Notice—Stamped to order in 5 to 7 days. **Postage is prepaid.**

284 C 6295—25 buttons.........$1.20
50 buttons.......$1.85 100 buttons.. 3.35
284 C 6296—Punch pliers for attaching buttons.................................95¢

Miller's Hog Tamer

Cuts cleanly through muscle in the rim of hog's nose, which prevents the hog from rooting. Does away with hog rings and ringers. Japanned iron. Two different size steel cutters with each instrument. Ship wt., 1½ lbs.

84 C 6260...............................98¢

Dies for Miller's Hog Tamer

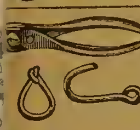
Dies, for marking ears of cattle. Used with Miller's hog tamer listed above. Made of steel, in three styles. Full size of dies, ¾ inch. (State style wanted, A, B or C.) Shipping weight, 2 ounces.

84 C 6261...............................33¢

Hog Holder

Indispensable for holding hogs when ringing. Malleable iron. Ship. wt., 1½ lbs.
84 C 6280 ....36¢

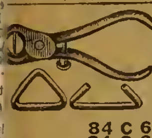
Perfect Hog Ringer



Japanned iron. Holds both sizes of rings. Shipping weight, 12 ounces.
84 C 6270..........15¢

WIRE HOG RINGS
Ship. wt., per hundred, 12 oz.
84 C 6271— Hog rings.
84 C 6272—Pig rings (small)
Per box (100).....13¢ Per doz. boxes $1.43

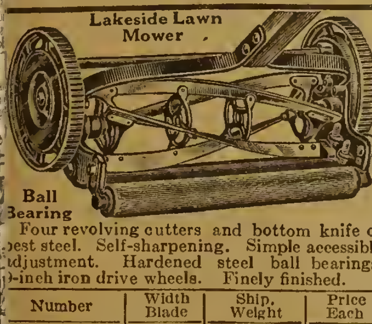
Hill's Hog Ringer



Japanned iron. Holds all sizes. Shipping weight, 10 ounces.
84 C 6273..........15¢

WIRE HOG RINGS
Shipping weight per hundred, 9 ounces. State size.
84 C 6274—Pig rings.
84 C 6275—Shoat rings.
84 C 6276—Hog rings.
Per box (100).......8¢ Per doz. boxes.....90¢

Lakeside Lawn Mower

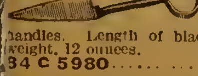


Ball Bearing

Four revolving cutters and bottom knife of best steel. Self-sharpening. Simple accessible adjustment. Hardened steel ball bearings. 9-inch iron drive wheels. Finely finished.

Number	Width Blade	Ship. Weight	Price Each
184 C 5572	14 in.	45 lbs.	$ 9.85
184 C 5573	16 in.	47 lbs.	10.65
184 C 5574	18 in.	49 lbs.	11.25

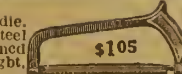
Grass Shear



For trimming edges of lawn. Forged from steel and tempered. Black finish. Bent handles. Length of blades, 5 inches. Shipping weight, 12 ounces.
84 C 5980.............................25¢

The Fastest and Most Humane Way—Safe Quick Sure

Dehorning Saw



Steel frame, iron handle. Tempered 10-inch steel blade. Nickel and Japanned finish. Shipping weight, 1 pound.
84 C 6254...........................$1.05
84 C 6255—Extra 10-inch steel blades. Shipping weight, per dozen, 8 ounces.
Each..........10¢ Per dozen....$1.15

Gidgee Pattern Sheep Shears

Extra quality cutlery steel, with double bow, full polished. Shipping weight, 12 to 14 ounces.
Length of blade.....................6 in. 6½ in.
84 C 6390.........................93¢ 95¢

Separable Sheep Shears

Best cutlery steel. Easily taken apart for sharpening. Strictly high-grade, full polished. Shipping weight, 1 pound.
Length of blade .... 6 in. 6½ in.
84 C 6395................$1.40 $1.60

American Sheep Shears

High-grade cutlery steel. Finely finished. Swaged, full-polished, 6-inch blades. Shipping weight, 13 ounces.
84 C 6392—Straight shears............74¢
84 C 6393—Bent shears.................74¢

Leavitt Dehorners

Heavy malleable iron head and handles. Keen edged, tempered steel knives. Cuts the horns fast and clean. Knives made so they cannot interlock or cut into each other. Length, about 38 inches.

484 C 6240—Large size. Opens 3¾ inches. Shipping weight, 15 pounds................ $3.90
84 C 6241—Extra blades. Shipping weight, per set of two, 2 lbs. Per set of 2.....................93¢

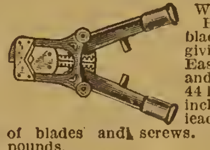
484 C 6242—Medium size Dehorner. Opens 3½ inches. Large enough for ordinary cattle. Shipping weight, 13½ pounds.. $3.10
84 C 6243—Extra blades. Shipping weight, per set of two, 2 lbs. Per set of 2....................83¢

Keystone Dehorners

Improved Keystone Dehorner

The improved Keystone is the largest and most effective dehorning knife made. In strength, cutting service and durability, it cannot be excelled. The taper rack and handles, which have eccentric gears, give the knives their greatest cutting power at the beginning of the stroke; where it is most needed. Handles are of malleable iron and the knives of fine tempered steel. Total length, 46 inches. Blades, open, 3½ inches. Complete, with cattle leader and rope, extra set of blades and screws. Shipping weight, 20 pounds.
484 C 6249........................ $13.50

Keystone Dehorner

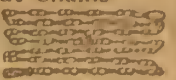


With Leader and Rope. Has two V-shaped steel blades, which come together, giving four cutting blades. Easily clips any horn clean and smooth. Total length, 44 inches; blades, open, 3½ inches. Complete, with leader and rope, extra set of blades and screws. Shipping weight, 21 pounds.
484 C 6247 .... $11.95

Improved Convex Dehorner

With Leader and Rope. Consists of two castings and one steel cutting knife. Makes clean cut on any size or shape of horn. Has hardwood handles. Blade may be replaced if damaged. Total length, 40 inches. Blades, open, 3 inches. Complete, with leader and rope and one extra blade. Shipping weight, 19 pounds.
484 C 6245 .... $10.85

Strong Tie Out Chains

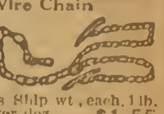


For tethering cattle in pasture. Uniformly made of tough, bright, steel wire. Strong and reliable. With swivel in center and ring and snap at the ends.

84 C 6370—State length

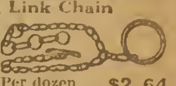
Length	Size	Wire Gauge	Ship. Weight	Price Each	Per Dozen
20 ft.	2-0	10	4 lbs.	44¢	$4.90
30 ft.	2-0	10	6 lbs.	64¢	7.00

Cow Ties—Steel Wire Chain



Length, about 4½ feet.
84 C 6360—Heavy. Two toggles. Shipping weight, each, 1¼ pounds.
Each............$ .21
Per doz.......... 2.30
84 C 6361—Light. Two toggles. Ship wt., each, 1 lb.
Each ....14¢ Per doz $1.55

Cow Tie—Welded Link Chain

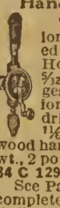


Bright welded steel links. Toggle and closed ring. Length, 4 feet. Shipping weight, each, 2 pounds.
84 C 6366—Each. 24¢ Per dozen... $2.64

Cow Tie—Welded Link Chain

Bright welded steel links. Length, about 4½ feet. Two toggles. Shipping weight, each, 1¾ pounds.
84 C 6364—Each. 27¢ Per dozen ...$2.95

Hand Drill



Ten inches long, 3-jawed chuck. Holds up to 5/32 in. Cut gears, 2 pinions, 8 fluted drills 1/16 to 11/64 in. Hard wood handle. Ship. wt., 2 pounds.
84 C 1291. $1.98
See Page 591 for complete line of Drills.

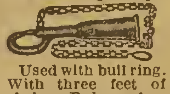
Steel Wire Coil Chain

Strongly made. Tough, bright steel wire. No welding.

84 C 8530—State size.

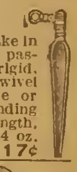
Size	No. 1	2-0	No. 4-0
Width	¾ in.	½ in.	⅝ in.
Gauge	12	10	8
Ship. wt., lbs.	9¾	16½	23¾
Per ft.	2¢	2½¢	3¢
100 ft.	$1.90	$2.25	$2.70

Bull Ring Snap



Used with bull ring. With three feet of chain. Rake or hoe handle may be used. Ship. wt., 15 ounces.
84 C 6342.. 78¢

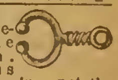
Steel Picket Pin



For use as a stake in tethering cattle in pasture. Swivel top; rigid, strong and light. Swivel prevents the rope or chain from winding around the pin. Length, 15 in. Ship. wt., 14 oz.
84 C 6374.... 17¢

Cattle Leaders

Malleable iron. By attaching an ordinary piece of rope the animal will be held securely. Without rope. Length, 8½ inches. Shipping weight, 22 ounces.
84 C 6340 ...... 27¢

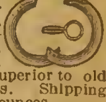


Malleable iron. Brass wire spring, not the cheap cast-iron kind. Length, 5 inches. Shipping weight, 8 ounces.
84 C 6338..12¢

Heavy Copper Bull Ring

Polished solid copper. Size, 3 by ⅜ inch. Shipping weight, 4 ounces.
84 C 6334.... 32¢

Bull Ring



Self-piercing, solid copper. Size, 2⅝ by ¼ inches. Superior to old style rings. Shipping weight, 4 ounces.
84 C 6330.. . 25¢

Brass Ox Horn Ball

To put on the horns of vicious cattle. Octagon. Diameter, 1 inch. Shipping weight, per dozen, 14 ounces.
84 C 6345—Each.. 6¢ Per doz....65¢

Wire Basket Weaner

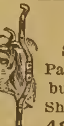
Steel wire, heavily tinned; complete with web straps. Simple, efficient and humane. Does not prevent drinking or feeding off the ground. Impossible to suck or throw basket off nose.

84 C 6320—Fits calves. Ship wt., each, 9 oz.
Each...........36¢ Per dozen.....$3.95
84 C 6321—Fits 2-year-olds. Shipping weight, each, 12 ounces.
Each...........43¢ Per dozen.....$4.75
84 C 6322—Fits cows. Ship. wt., each, 1 lb.
Each...........48¢ Per Dozen..... $5.25

Wagner Weaner

Heavily tinned metal. Permits the calf to graze, eat or drink, yet effectually prevents sucking of cow.
84 C 6326—Calf size. Shipping weight, each, 4 ounces.
Each.......... 39¢ Per dozen... $4.35
84 C 6327—Cow size. Ship. wt., ea., 6 ounces.
Each.......... 49¢ Per dozen....$5.55

Cow Pokes



Save fences and stock. Made of steel. Painted. Adjustable in size. Come in bundle of 3. Hinged at the center. Shipping weight, per bundle, 10 pounds.
484 C 6351—Per bundle...$1.25

Wheelbarrows

Railroad Barrow

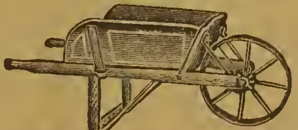
$2.60

Selected seasoned hardwood securely bolted and braced. Tight, well-made tray. Full size. Depth at handles, 10 inches; width, 34 inches; length on top, 26 inches. Steel wheel, diameter, 16 inches; width, 1¼ inches. Shipped flat. Easily set up. Shipping weight, 37 pounds.
184 C 5604.....................$2.60

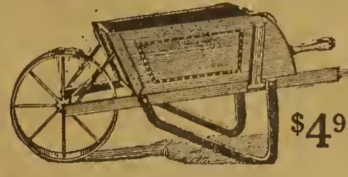
Seamless Steel Barrow

Tray is pressed from a single sheet of 18-gauge steel without seam or lap. The edge is turned over a 5/16-inch steel rod which stiffens the tray and gives a round finished edge. Length, 33 inches; width, 22 inches; depth at wheel, 11 inches; at handle, 7½ inches. Tray mounted on triangular blocks of wood. 16 by 1½-inch wheel. Capacity, 3 cubic feet. Shipping weight, 41 pounds.
184 C 5606.......................$4.35

Garden Barrows



A popular low-priced wheel-barrow. Hardwood frame; steel-braced legs. Width of box at wheel, 16½ inches; width at handles, 20½ inches; depth, 11½ inches; length inside, 28 inches. Steel wheel, diameter, 20 inches; width, 1½ inches. Sides are removable. Well painted. Shipped flat, easily set up. Shipping weight, 46 pounds.
184 C 5600...............................$3.85



$4.95

Strong Garden Barrow

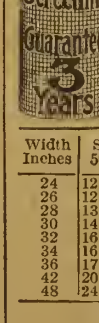
Removable sides. Strong angle steel legs. Dash strongly braced. Inside measurements of box: length, 28 inches; width at handles, 20½ inches; width at wheel, 16½ inches; depth, 11½ inches. Seasoned wood frame. Large 20 by 1½-inch steel wheel, with solid steel axle. Well painted, striped and varnished. Shipped flat, easily set up. Shipping weight, 49 pounds.
184 C 5602.....................$4.95

Contractors' Barrows Extra Strong

Heavy; one-piece steel tray; 14-gauge, with edges turned over around bar. Greatest depth at the front end, throwing heaviest load on the wheel. Dumps forward. Handles of heavy steel tube. Braces securely bolted. Steel wheel, 16 by 1½ inches. Made in three sizes. Well painted. Shipped taken apart to save you freight. Easily set up. Ship. wts., 62 to 85 lbs.

Article Number	Cap. Cu. ft.	Lgth. Tray	Width Top	Dpth. Front	Price Each
184 C 5607	3	32 in.	28 in.	7 in.	$7.15
184 C 5608	4	37 in.	29 in.	9 in.	7.95
184 C 5609	6	43 in.	33 in.	12 in.	10.90

Duro Galvanized Screen Cloth

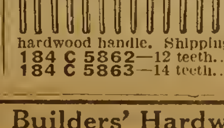


Extra Closely Woven

A special rust-resisting wire cloth guaranteed by us for three years except where exposed to salt sea air. Will be replaced if defective in that time. Has 14 wires to the inch. (All ordinary screen has 12.) Store your screens in a dry place in Winter. A coat of screen paint every spring will give further protection and many years' service.

Width Inches	Ship. wt., 50-ft. Roll	484 C 5496 Price per Linear ft.	484 C 5494 Per 50-ft. Roll	484 C 5495 Per 100-ft. Roll
24	12¼ pounds	6½¢	$3.10	$6.00
26	12¾ pounds	7 ¢	3.35	6.50
28	13¾ pounds	7½¢	3.60	7.00
30	14¼ pounds	8 ¢	3.85	7.50
32	16 pounds	8½¢	4.10	8.00
34	16¾ pounds	9 ¢	4.35	8.50
36	17½ pounds	9½¢	4.60	9.00
42	20¾ pounds	11 ¢	5.35	10.50
48	24 pounds	12½¢	6.10	12.00

Lakeside Forged Steel Rake



Forged from one piece of steel. Steel bow brace. Long hardwood handle. Shipping weight, 3¼ pounds.
184 C 5862—12 teeth.....................75¢
184 C 5863—14 teeth.....................95¢

Bronze Wire Cloth

Made of Copper Bronzed Wire. Extra quality. Will not rust. Will stand any exposure. The mesh is finer than ordinary screen, being 14 meshes to the inch, excludes smaller insects, as well as flies.

14 Mesh

Width Inches	Ship. wt. 100-ft. Roll	184 C 5499 Price per Linear ft.	184 C 5497 Per 50-ft. Roll	184 C 5498 Per 100-ft. Roll
24	34 pounds	15 ¢	$7.30	$14.40
26	36 pounds	16½¢	7.90	15.60
28	40 pounds	17½¢	8.50	16.80
30	43 pounds	19 ¢	9.10	18.00
32	44 pounds	20 ¢	9.70	19.20
34	46 pounds	21 ¢	10.30	20.40
36	51 pounds	22½¢	10.90	21.60
42	59 pounds	26 ¢	12.70	25.20
48	65 pounds	29½¢	14.50	28.80

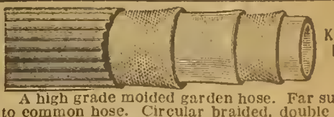
Wire Screen Staples

For fastening wire cloth on frames. Better than tacks. About 2,000 in a pound. Shipping weight, per one-pound package, 18 ounces.
84 C 4547—Per 1-lb. pkg......36¢
84 C 4548—Per 2-oz. pkg...... 5¢

Grass Hook

32¢

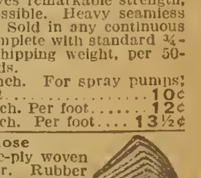
Cuts from point to head. Steel blade with ribbed back and polished cutting edge. Hardwood handle. Shipping weight, 18 ounces.
84 C 5986 .32¢



A high grade molded garden hose. Far superior to common hose. Circular braided, double woven cotton jacket insertion gives remarkable strength, and makes kinking impossible. Heavy seamless molded rubber covering. Sold in any continuous length up to 500 feet. Complete with standard ¾-inch brass couplings. Shipping weight, per 50-foot length, 16 to 19 pounds.

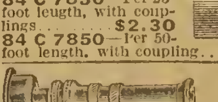
84 C 7862—Size ½ inch. For spray pumps; greenhouses, etc. Per foot.................10¢
84 C 7861—Size ¾ inch. Per foot...... 12¢
84 C 7860—Size ⅝ inch. Per foot.... 13½¢

5-Ply Garden Hose



Rubber inner tube, five-ply woven fabric, vulcanized together. Rubber cover. Size, ⅝ inch. Shipping weight, per 50-foot length, 20 lbs.
84 C 7850—Per 25-foot length, with couplings........$2.30
84 C 7850—Per 50-foot length, with coupling..............$4.50

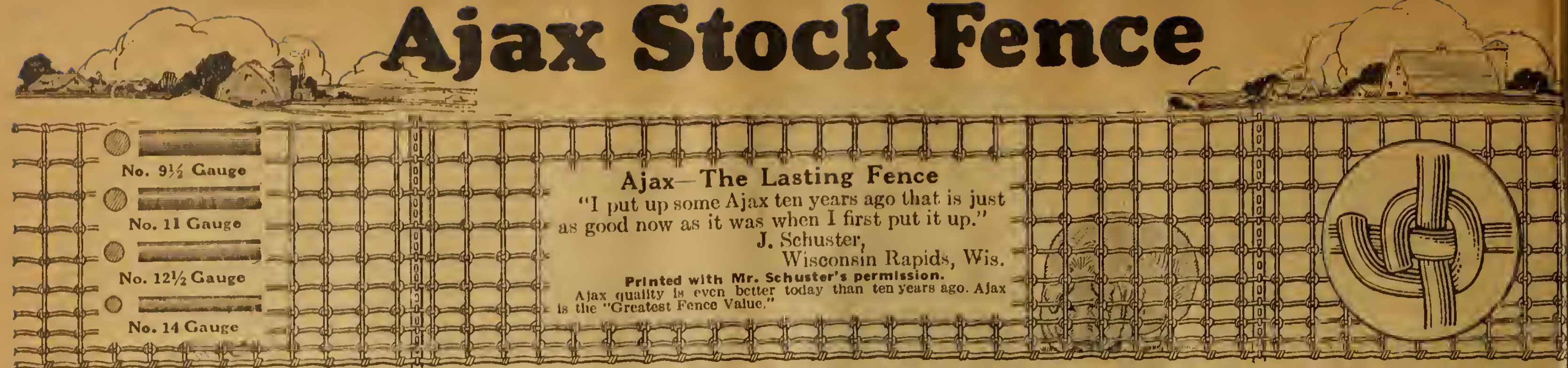
Brass Nozzle



Very effective. Adjustable from a solid stream to a fine spray. For ¾, ⅝ and ½-inch hose. Length, 4 inches. Shipping weight, 5 ounces.
84 C 7900. 43¢

A complete line of Builders' Hardware is shown on Pages 598 and 599

Ajax Stock Fence



Ajax—The Lasting Fence

"I put up some Ajax ten years ago that is just as good now as it was when I first put it up."
J. Schuster,
Wisconsin Rapids, Wis.

Printed with Mr. Schuster's permission.
Ajax quality is even better today than ten years ago. Ajax is the "Greatest Fence Value."

Ajax Sheep and Hog Fence 18¢ Per Rod
Tough Steel Wire

Heavily Galvanized

Height: 20 Inches.
Line Wires: Six.
Spacing: 3 inches at bottom, widening to 5 inches at top. Stays, 12 inches or 6¾ inches apart.
Wire Gauge: Top and bottom, No. 9½; all the rest, No. 12½.
Shipping weight, 10 rods, 45 and 55 pounds.

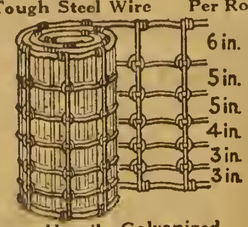
Article Number	Stay Space	Price Per Rod
284 C 5250	12 in.	18¢
284 C 5251	6¾ in.	23¢

Sold only in full bales of 10, 20, 30 and 40 rods
Shipped from Northern Illinois, or Southeastern Iowa

Read What Other Customers Say

"I bought several kinds of hog fence,—some cheap kinds in light wire—and find it pays best to buy heavy wire such as "Ajax," which cannot bag or sag. It securely withstands every assault of time, weather and live stock. My neighbors and myself pronounce Ajax the best fence on the market."
L. A. Longman,
Missouri Valley, Iowa.
Printed with Mr. Longman's permission

Ajax Sheep and Hog Fence 19½¢ Per Rod
Tough Steel Wire



Heavily Galvanized

Height: 26 Inches.
Line Wires: Seven.
Spacing: 3 in. at bottom widening to 6 inches at top. Stays, 12 inches or 6¾ inches apart.
Wire Gauge: Regular Grade: Top and bottom, No. 9½; all the rest, No. 12½.
Special Grade: Top and bottom, No. 11; all the rest, No. 14.
Shipping weight, 10 rods, 43, 55 and 65 pounds

Article Number	Grade	Stay Space	Price Per Rod
284 C 5240	Spec.	6¾ in.	19½¢
284 C 5252	Reg.	12 in.	22 ¢
284 C 5253	Reg.	6¾ in.	27 ¢

Sold only in full bales of 10, 20, 30 and 40 rods
Shipped from Northern Illinois, or Southeastern Iowa

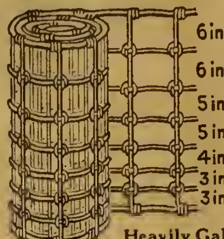
Ajax Lasts Longer Because—

the wire used is **Basic** open hearth steel, unusually springy and tough, heavily galvanized to prevent rusting. The stay wires and line wires are of the same size, making a strong rigid fence. The top and bottom wires are heavier because they stand more strain. "Ajax" always stands erect. The upright stays are one piece, and are not twisted around the line wires, but held to them by the famous "Ajax" knot which eliminates the weak points and cracked surface of twisted line wires. The more you stretch the fence the tighter the knot grips. It holds every wire firmly in place, and every wire in the fence stands its share of the strain. The expense for posts and labor is the same whether you stretch a light weight inferior fence or our "Ajax," but the cost per year of service is much less for "Ajax." Thousands of farmers in all parts of this country know "Ajax" as the "Greatest Fence Value." Shipped direct from the nearest factory, saving you freight, and with only one small profit added.

AJAX is the Best

"It is cheaper to buy Ajax fencing than a lighter kind. I would rather have Ajax than any other fence I have ever bought."
Thomas Bemrose,
Anamosa, Iowa.
Printed with Mr. Bemrose's permission.

Ajax Stock Fence 24¢ Per Rod
Tough Steel Wire



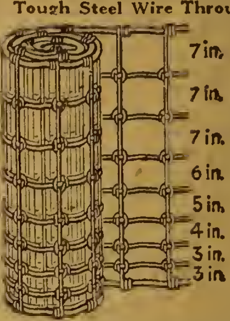
Heavily Galvanized

Height: 32 inches.
Line Wires: Eight.
Spacing: 3 inches at bottom widening to 6 inches at top. Stays, 12 inches or 6¾ inches apart.
Wire Gauge: Regular grade: Top and bottom, No. 9½; all the rest, No. 12½. **Special Grade:** Top and bottom, No. 11; all the rest, No. 14.
Shipping weight, 10 rods, 51, 62 and 77 pounds

Article Number	Grade	Stay Space	Price Per Rod
284 C 5241	Spec.	6¾ in.	24¢
284 C 5254	Reg.	12 in.	29¢
284 C 5255	Reg.	6¾ in.	35¢

Sold only in full bales of 10, 20, 30 and 40 rods
Shipped from Northern Illinois or Southeastern Iowa

Ajax Stock Fence 28¢ Per Rod
Tough Steel Wire Throughout



Heavily Galvanized

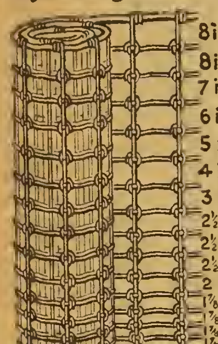
Height: 42 in.
Line Wires: Nine.
Spacing: 3 inches at bottom widening to 7 inches at top. Stays, 12 inches or 6¾ inches apart.
Wire Gauge: Regular grade: Top and bottom, No. 9½; all the rest, No. 12½; **Special Grade:** Top and bottom, No. 11; all the rest, No. 14.
Shipping weight, 10 rods, 58, 70 and 87 pounds

Article Number	Grade	Stay Space	Price Per Rod
284 C 5242	Spec.	6¾ in.	28¢
284 C 5260	Reg.	12 in.	32¢
284 C 5261	Reg.	6¾ in.	40¢

Sold only in full bales of 10, 20, 30 and 40 rods
Special grade shipped from Northern Illinois Only. Regular Grade Shipped from Northern Illinois or Southeastern Iowa.

NOTICE. All Ajax Fence is Shipped from Northern Illinois or Southeastern Iowa Unless Otherwise Stated in Our Description. We Save You Freight by Shipping from Nearest Factory. Fencing Prices Subject to Market Changes.

Ajax Light Stock or Heavy Poultry Fence 40¢ Per Rod

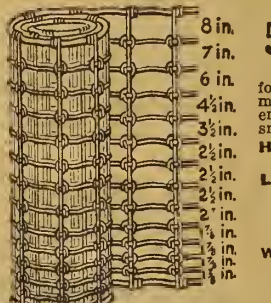


Our best Poultry Fence, made the same as Ajax fence; but lighter.
Height: 46 inches and 58 inches.
Line Wires: 14 or 16.
Spacing: 1⅞ inches at bottom, widening to 8 inches at top. Stays, 8 inches apart.
Wire Gauge: Top and bottom, No. 11; all others No. 14.
Shipping weight, 10 rods, 75 and 88 pounds

Article Number	Height	Line Wires	Stay Space	Price per Rod
284 C 5275	46 in.	14	8 in.	40¢
284 C 5276	58 in.	16	8 in.	46¢

Sold only in full bales of 5, 10, 20 and 30 rods. Shipped from Northern Illinois only

Ajax Stock and Extra Heavy Poultry Fence 55¢ Per Rod

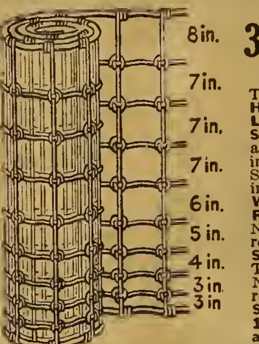


Strong enough for stock with meshes close enough to stop small chickens.
Height: 46 and 58 inches.
Line Wires: 14 or 16. **Spacing:** 1⅞ inches at bottom to 8 inches at top.
Wire Gauge: top and bottom, No. 9½; others, No. 12½.
Shipping weight, 10 rods, 113 and 128 pounds

Article Number	Height	Line Wires	Price Per Rod
284 C 5270	46 inches	14	55¢
284 C 5271	58 inches	16	63¢

Sold only in full bales of 10, 20 and 30 rods. We do not cut bales.
Shipped from Northern Illinois only

Ajax Stock Fence 30¢ Per Rod

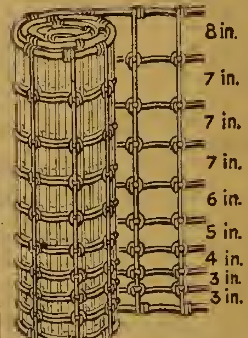


Galvanized. Tough steel wire.
Height: 50 ins.
Line Wires: Ten.
Spacing: 3 inches at bottom, to 8 inches at top. Stays, 12 or 6¾ in. apart.
Wire Gauge: Regular Grade No. 9½; All the rest No. 14.
Special Grade: Top and bottom No. 11, all the rest No. 14.
Shipping wt., 10 rods: 65, 78 and 97 pounds.

Article Number	Grade	Stay Space	Price Per Rod
284 C 5243	Spec.	6¾ in.	30¢
284 C 5262	Reg.	12 in.	36¢
284 C 5263	Reg.	6¾ in.	45¢

Sold only in full bales of 10, 20, 30 and 40 rods. Special Grade Shipped from Northern Illinois Only. Regular Grade Shipped from Northern Illinois or Southeastern Iowa.

AJAX Extra Heavy Stock Fence 48¢ Per Rod

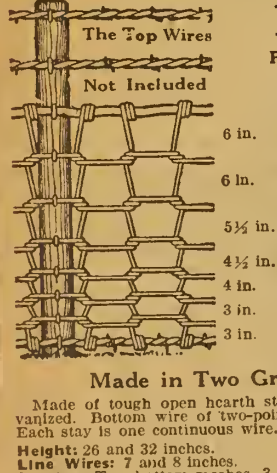


One of the strongest fences made. Tough steel wire. Heavily galvanized.
Height: 45 inches or 50 inches.
Line Wires: 8 or 10 inches.
Spacing: 3 inches at bottom widening to 8 inches at top. Stays, 16, 12 or 8 inches apart.
Wire Gauge: All wires are No. 9½ gauge (about 5/32 inches).
Shipping weight, 10 rods, 105, 140, 170 pounds

Article Number	Height	No. Line Wires	Stay Space	Price Per Rod
284 C 5280	45 inches	8	16 inches	48¢
284 C 5281	50 inches	10	12 inches	59¢
284 C 5282	50 inches	10	8 inches	79¢

Sold only in full bales of 20, 30 and 40 rods
NOTE: Shipped only from Factory in Northern Illinois

Barbed Bottom Hog Fence 19¢ Per Rod



Stays are continuous and firmly interlocked with the line wires making a very rigid fence. Barbed bottom wire helps to keep hogs and pigs in or out by preventing rooting a hole under fence. We recommend Standard Grade for hogs and Special Grade for small pigs.

Made in Two Grades

Made of tough open hearth steel wires. Galvanized. Bottom wire of two-point barbed wire. Each stay is one continuous wire.
Height: 26 and 32 inches.
Line Wires: 7 and 8 inches.
Spacing: Two bottom meshes, 3 in., widening to 6 inches at top. Stays are 6 inches apart.
Wire Gauge: Standard Grade: top No. 10; all the others, No. 13.
Special Grade: Top, No. 11; all others, No. 14.
Shipping weight, 20 rods: 85, 100, 105 and 120 pounds.

Article Number	Grade	Height Inches	Line Wires	Ship. Wt. 20 Rods	Price Per Rod
284 C 5312	Spec.	26	7	85 lbs	19¢
284 C 5313	Spec.	32	8	100 lbs	24¢
284 C 5310	Stand.	26	7	105 lbs	25¢
284 C 5311	Stand.	32	8	120 lbs	29¢

Sold only in full bales of 20 and 40 rods
Shipped from Factory in Central Indiana

Diamond Mesh Poultry Netting

Tough steel galvanized wire with heavy top and bottom wires. Will stretch evenly, stand rigidly and will not sag or bulge. Well galvanized and rust-resisting. Sold only in full bales of 150 lineal feet.

184 C 5325—2-inch Mesh. Standard size. Made of Number 19 galvanized wire.

Height, inches	12	18	24	30	36	42	48	60	72
Shipping weight, bales, pounds	13	18	24	29	36	40	46	60	70
Price, per bale of 150 feet	$1.00	$1.65	$2.15	$2.60	$2.95	$3.35	$3.90	$4.90	$5.90

184 C 5326—1½-inch Mesh Popular medium mesh. Made of Number 19 galvanized wire.

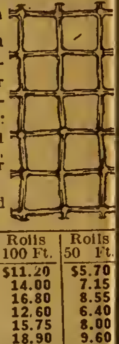
Height, inches	12	18	24	30	36	42	48	60	72
Shipping weight, bales, pounds	16	21	25	35	40	45	55	69	80
Price, per bale of 150 feet	$1.65	$2.45	$3.10	$3.75	$4.30	$5.00	$5.75	$7.15	$8.60

184 C 5327—1-inch Mesh. Will keep the smallest chicks safely enclosed. Made of Number 20 galvanized wire.

Height, inches	12	18	24	30	36	48
Shipping weight, pounds	18	25	35	38	48	60
Price, per bale of 150 feet	$2.20	$3.30	$4.30	$5.10	$5.80	$7.80

Shipped from Stock in Chicago

Galvanized Square Mesh Heavy Gauge Wire Cloth



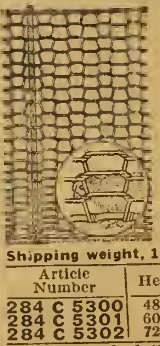
For window guards, fruit evaporators, screens, cages and similar use. Mesh means number of openings to inch. We furnish as follows: 2 mesh, 19 gauge wire; 3 mesh, 21 gauge; 4 mesh, 23 gauge; 5 mesh, 24 gauge. Shipping weight, per 100-ft. roll, 60 to 88 pounds.

484 C 5330—State mesh and width wanted.

Mesh	Width	Shipping Weight	Running Foot	Rolls 100 Ft.	Rolls 50 Ft.
2 or 3	24 in.	60 lbs.	12¢	$11.20	$5.70
2 or 3	30 in.	75 lbs.	15¢	14.00	7.15
2 or 3	36 in.	93 lbs.	18¢	16.80	8.55
4 or 5	24 in.	52 lbs.	13¢	12.60	6.40
4 or 5	30 in.	68 lbs.	16¢	15.75	8.00
4 or 5	36 in.	88 lbs.	20¢	18.90	9.60

Shipped from Stock in Chicago

Perfect Poultry Fence

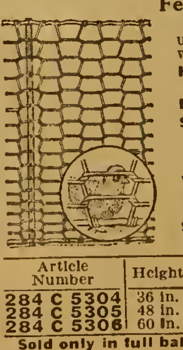


Open hearth steel wire, heavily galvanized. Each stay is one continuous wire firmly interlocked with line wires. Cannot spread. No top or baseboard necessary. No buckling between posts.
Height: 48, 60 and 72 inches.
Line Wires: 20, 23 and 26.
Spacing: 1⅛ inches at bottom, widening to 4½ inches at top. Stay space, 4½ inches.
Wire Gauge: Top and bottom wires, No. 14; all others, No. 18.
Shipping weight, 10 rods, 35, 45 and 50 pounds

Article Number	Height	Line Wires	Ship. Wt. 10 Rods	Price Per Rod
284 C 5300	48 in.	20	35 lbs.	29¢
284 C 5301	60 in.	23	45 lbs.	35¢
284 C 5302	72 in.	26	50 lbs.	39¢

Sold only in full bales of 10, 15 or 20 rods
Shipped from Factory in Central Indiana

Standard Poultry or Light Stock Fence



Each stay is one continuous wire firmly interlocked with line wires.
Height: 36, 48 and 60 inches.
Line Wires: 15, 17 and 19.
Spacing: 1¼ inches at bottom widening to 5¼ inches at top. Stays are 6 inches apart.
Wira Gauge: Top and bottom wires, No. 10; all others, No. 14.
Shipping weight, 10 rods, 73, 83, 93 pounds

Article Number	Height	Line Wires	Ship. Wt. 10 Rods	Price Per Rod
284 C 5304	36 in.	15	73 lbs.	35¢
284 C 5305	48 in.	17	83 lbs.	39¢
284 C 5306	60 in.	19	93 lbs.	46¢

Sold only in full bales of 10, 15 and 20 rods
Shipped from Factory in Central Indiana

Steel Poultry Yard Gate

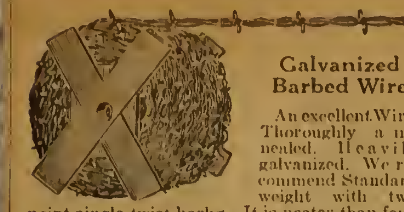
A neat durable Gate for the poultry yard, lawn or garden. Strong enough to turn cattle. Latch and hinges for wood posts included. Painted frame of heavy tubular steel, 1⅛ inches outside diameter. Galvanized fabric of No. 14-gauge steel wire. Close mesh, 1½ inches at bottom, widening to 5½ inches at top.

Article Number	Height	Width	Ship. Wt.	Price Each
284 C 5349	36 in.	3½ ft.	18 lbs.	$1.75
284 C 5350	48 in.	3½ ft.	20 lbs.	2.00
284 C 5351	60 in.	3½ ft.	24 lbs.	2.25

Shipped from Northern Illinois or Central Indiana

See Page 387 for our Stock Tonics

Fence Supplies



Galvanized Barbed Wire

An excellent Wire. Thoroughly annealed. Heavily galvanized. We recommend Standard weight with two point single twist barbs. It is neater than four point, easier to handle and just as effective. **Cattle Wire** has barbs 5 inches apart. **Hog-Wire** has barbs 3 inches apart.

Standard Grade: has 2 strands No. 12½ gauge wire: Shipping weight, per rod, about 1 pound.

Art. No.	Style	Quantity	Price
284 C 5420	Cattle 2 pt.	100 lbs. on reel	$3.95
284 C 5421	Cattle 2 pt.	80 rods on spool	3.20
284 C 5422	Hog 2 pt.	100 lbs. on reel	3.95
284 C 5423	Hog 2 pt.	80 rods on spool	3.45
284 C 5426	Cattle 4 pt.	80 rods on spool	3.55
284 C 5427	Hog 4 pt.	80 rods on spool	3.85

Shipped from Northern Illinois. Can be shipped with AJAX Fencing

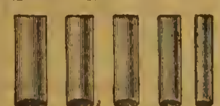
"Eclipse" 80-Rod Barbed Wire. Galvanized. Made of No. 14-gauge tough steel wire. Shipping weights, per spool, 56 and 58 pounds.

Art. No.	Style	Quantity	Price
284 C 5440	Hog 2 pt.	80 rods on spool	$2.50
284 C 5441	Cattle 2 pt.	80 rods on spool	2.30

Shipped from Factory in Central Indiana

High Grade Smooth Fence Wire

Open hearth steel Wire, best for this purpose. Prices are given for about 100 pound bundles. We do not break bundles.



Gauge No.	Feet in 100 lbs.	284 C 5450 Plain	284 C 5451 Galvanized
8	1425	$3.35	$3.85
9	1725	3.35	3.85
10	2075	3.40	3.90
12	3425	3.50	4.00
14	5900	3.70	4.20

Shipped from Factory in Central Indiana

Galvanized Brace Stay Wire

No. 9-gauge soft steel wire, for bracing end posts. About 170 feet in a 10-pound coil. Enough to brace three end posts. Makes a fine clothes line wire. Shipping weight, per coil, 10 pounds.

284 C 5452—Per coil........................**48¢**

Shipped from Northern Illinois

Standard Fence Staples

Steel wire, sharp points. For barbed wire and heavy fencing. About 100 staples in a pound. A keg holds 100 pounds. Shipping weight, per keg, 112 pounds.

	1⅛ in.	1¼ in.	1½ in.
Bright			
84 C 5454—Pound...	4¢	4¢	4¢
184 C 5455—Keg.....	$3.50	$3.50	$3.50
Galvanized.			
84 C 5456—Pound...	4½¢	4½¢	4½¢
184 C 5457—Keg.....	$4.00	$4.00	$4.00

Poultry Netting Staples

Galvanized Light Poultry Netting Staples. Will not readily bend or split wood. Shipping weight of 10-pound package, 12 pounds.

84 C 5460—Size ¾ inch, 500 to 1 pound. Per pound........................**7¢**

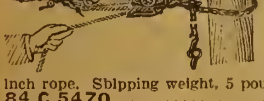
84 C 5461—Size 1 inch, 360 to 1 pound. Per pound........................**7¢**

Lakeside Forged Steel Pliers

Drop forged steel, nicely finished. Combines staple puller, double wire cutter, double hammer, wire splicer, pincers and wrench. Length, 10 inches. Shipping weight, 2 pounds.

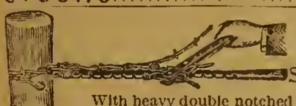
84 C 2231........................**$1.20**

Tackle Block Fence Stretcher



For smooth or barbed wire and woven wire fence. As a tackle block or rope hoist lifts 500 pounds. With 15 feet of ⅜-inch rope. Shipping weight, 5 pounds.

84 C 5470........................**98¢**

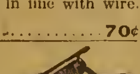


Elwood Fence Stretcher

With heavy double notched bar. Stands out from the post and remains in line with wire. Shipping weight, 5 pounds.

84 C 5472........................**70¢**

Wire Fence Grip



May be attached to any wire stretcher. For smooth or barbed wire. Heavy cast iron. Shipping weight, 1 pound.

84 C 5476........................**35¢**

Fence Finishing Tool

Easily stretches line wires around last post. Malleable iron, Japanned. Length, 19½ inches. Shipping weight, 3 pounds.

84 C 5478........................**75¢**

Woven Wire Fence Stretcher

Powerful, quick acting and self locking 8-foot chain and hooks, 62-inch wood clamp bars, and combination crank and finishing tool for stretching near the last post.

484 C 5482—Single stretcher. Shipping weight, 38 pounds........................**$3.98**

184 C 5483—Double stretcher, with two chains, tighteners and crank. Shipping weight, 70 pounds........................**$7.80**

Low Priced Sagless Farm Gates

Any Length Desired; Height Not to Exceed 52 Inches

A Gate Which is Made at Home and is Equal to Any Sagless Gate on the Market

Make your own Sagless Gates. All you need is our complete set of irons. You supply the boards. Set includes four pairs of upright cross pieces, one strong brace, complete hinges and all necessary bolts. The materials are shipped in a small compact bundle, saving you high freight cost on the assembled gate. This gate will be equal to any high priced sagless gate manufactured. Full instructions included. Shipping weight, 35 pounds.

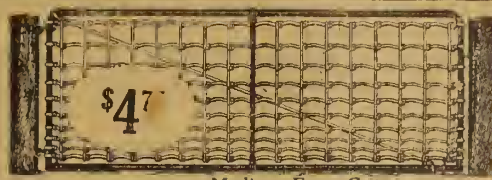
284 C 5365—Set of irons complete........................**$1.98**

Sagless gate as illustrated, completely assembled, all ready to hang, including boards. **State size wanted.**

Size	10 feet	12 feet	14 feet	16 feet
Shipping weight	115 lbs.	131 lbs.	148 lbs.	164 lbs.
284 C 5366	**$3.98**	**$4.35**	**$4.75**	**$4.95**

Irons, or complete assembled gates shipped from Factory in Northern Illinois

Steel Farm Gate Strong—Rigid



Tubular steel frame with an upright and a diagonal brace making it strong and rigid; heavy galvanized square mesh wire filling at bottom, 3 inches; top, 8 inches. Outside diameter of frame, 1⅜ inches. Prices include latch and hinges for wood posts. Shipping weights, 65, 69 and 75 pounds.

Height	Width	Article Number	Each
54 in.	10 feet	284 C 5354	$6.75
54 in.	12 feet	284 C 5355	7.40
54 in.	14 feet	284 C 5356	8.35

Shipped from Factory in Northern Illinois

Medium Farm Gate

Outside diameter of frame, 1⅛ inches. Otherwise the same as above. Size of mesh, bottom, 2¾ inches; top, 7⅞ inches. Shipping weights, 55 and 58 pounds.

Height	Width	Article Number	Each
54 in.	10 feet	284 C 5357	$4.75
54 in.	12 feet	284 C 5358	6.20

Shipped from Factory in Northern Illinois

Adjustable Farm Gates

Prices Greatly Reduced

Easily raised at one end to clear snow drifts, or other obstructions. Heavy 1¾-inch tubular steel frame, barbed top, strong fittings, hinges and latch. Heavy gauge galvanized wire fabric, with 6-inch stays. Space between mesh, bottom, 3 inches; top, 7 inches. Prices include latch and hinges for wood posts. Complete, ready to hang.

Height	Width	Ship. Wt., Lbs.	284 C 5360 Painted Frame	284 C 5361 Galvanized Frame
54 in.	10 feet	80	$6.90	$ 7.90
54 in.	12 feet	90	7.50	8.70
54 in.	14 feet	100	8.40	9.90
54 in.	16 feet	110	8.90	10.75

Shipped from Factory in Northern Illinois

98¢

R. F. D. Mail Box

Heavy galvanized sheet steel. Size, 18½ inches long, 6¼ inches wide and 7½ inches high. Approved box for R. F. D. Service. Has coin holder and signal flag. Shipping weight, 10 pounds.

484 C 4741..**98¢**

Package Mail Box Larger and heavier construction. **Not Mailable.** Size, 23½ inches long, 11 inches wide, 14 inches high. Shipping weight, 25 pounds.

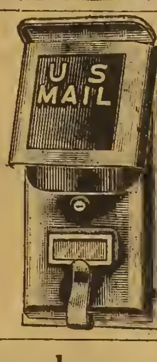
184 C 4743........................**$2.98**

A Cardboard Stencil of Your Name Included Free with Either of These Boxes, when requested.

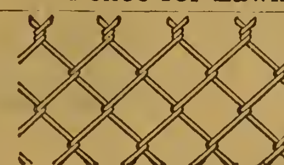
City Mail Box

Heavy sheet steel, dull black, rust - resisting finish. Height, 11½ inches. Width, 6 inches. Depth, 2 inches. Covered letter slot. Self-locking door. Two flat keys. Spring clip for holding papers. Glass panel with card holder. Shipping weight, 2 pounds.

84 C 4726 — Each....**75¢**



Fence for Lawn, Factory, School or Church



Chain Link Fence

A Non-Climbable Fence

Neat appearance makes this an attractive Fence. Extensively used for enclosing factory grounds, cemeteries, parks, school grounds, tennis courts and residences. Each strand of wire extends the full height of fence. Made of best quality, heavy galvanized steel wire, **No. 9 gauge**. Mesh is 2 inches. All heights may be furnished in any continuous lengths up to 50 feet.

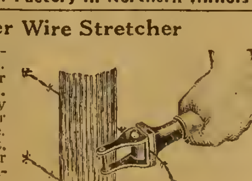
284 C 5315—**State height**

Height	Ship. Wt. Per Foot	Price, Per Running Ft.
4 feet	3¼ pounds	18¢
4½ feet	3½ pounds	20¢
5 feet	4 pounds	22¢
5½ feet	4¼ pounds	25¢
6 feet	4¾ pounds	27¢
7 feet	5½ pounds	31¢
8 feet	6¼ pounds	37¢
9 feet	7 pounds	43¢
10 feet	7¾ pounds	48¢

Shipped from Factory in Northern Illinois

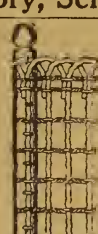
Lever Wire Stretcher

Heavy malleable iron jaws. With socket for inserting handle. Grips securely either barbed or smooth wire. Shipping weight, 3½ pounds. Lever or handle not included.



84 C 5474........................**35¢**

See opposite page for Ward's Ajax Fencing.



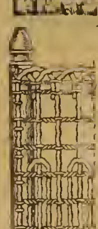
Fernwood Lawn Fence

Heavy No. 9 galvanized wire pickets, spaced 3 inches apart and evenly corrugated.

The cable line wires are twisted tightly around each picket, and spaced about 6 inches apart except at top, where strength is most needed; they are only 2½ inches apart.

Height, Inches...	36	42	48
Cables..........	7	8	9
Shipping weight, per foot, lbs...	1¼	1⅓	1½
284 C 5380—Per foot..........	8¢	10¢	11½¢

Shipped from Factory in Northern Illinois



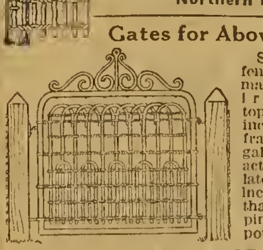
Ridgewood Lawn Fence

Heavy No. 9 galvanized wire pickets, spaced 2⅞ inches apart at top. Close spacing of 1⅜ inches at bottom. The cable line wires are about 6 inches apart and twisted around each picket.

Height, inches....	36	42	48
Cables..........	7	8	9
Shipping weight, per foot, pounds..	1¾	1⅘	2
284 C 5381—Per foot..........	11¢	13¢	16¢

Shipped from Factory in Northern Illinois

Gates for Above Fence



State which fence Gate is to match. Wrought iron ornamental top. Strong 1⅛-inch tubular steel frame. Fabric is galvanized. Double acting hinge. Good latch. Frame is 3 inches higher than fabric. Shipping weight, 30 pounds.

284 C 5385

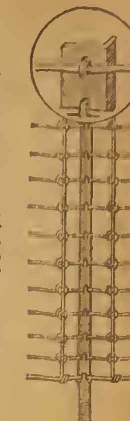
Ht. Fabric	36 in.	42 in.	48 in.
3 ft. gate	$2.75	$2.85	$2.95
3½ ft. gate	2.95	3.05	3.15

Shipped from Factory in Northern Illinois

Fence Posts

Steel Fence Posts

Cost Less Than Wood



Heavy Angle Steel Fence Posts. Size, 1½ by 1½ by ⅛ inches thick. Total length, 7 feet. Can be quickly driven into any kind of soil and easily removed when relaying fields or pastures. No staples required, as there are hooks or prongs punched out of the steel upon which the wire rests.

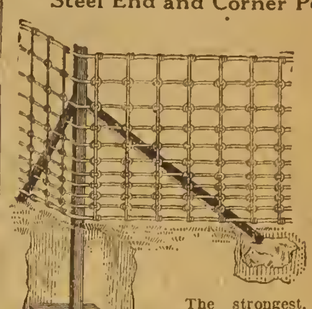
Hooks are close together to take woven wire fencing of any size mesh, suitable for fencing any height up to 60 inches. Shipping weight, 9 pounds.

284 C 5410—Painted with weather-resisting black paint........................**28¢**

284 C 5411—Galvanized rust-resisting..........**50¢**

Shipped from Factory in Northern Illinois only. Can be Shipped with AJAX Fencing

Steel End and Corner Posts



Picture shows heavy steel anchor plate

The strongest, simplest, most economical and easily installed Corner and End Posts made. Posts, 7⅓ feet long of steel angles 2½ by 2½ by ¼ inches. Braces, 7⅓ feet long of steel; angles 2 by 2 by 3/16-inch, bolted to post. Anchor plate of heavy steel, firmly attached. End post has one brace only. Corner post has two. Foot of brace should be placed against large stone. When stretching fence, attach stretcher to false post three feet behind end post. Shipping weights: end post, 69 pounds; corner post, 86 pounds.

284 C 5408—End post. Painted. Each....**$2.85**
284 C 5409—Corner post. Painted. Each.. **3.75**
284 C 5413—End post. Galvanized. Each.. **4.35**
284 C 5414—Corner post. Galvanized. Each **5.75**

Shipped from Factory in Northern Illinois

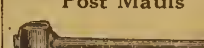
Steel Fence Anchors

Prevent hogs from raising the fence. Posts may be placed at greater distances apart, reducing cost for posts. Easily driven with axe or hammer. Lug at top holds bottom wire. Fine at bottom prevents pulling up. Made of high grade steel angles, ⅝ inch by 1 inch by 15 inches long. Shipping weight, ¾ pounds.

284 C 5407—Each..........**5¢**

Shipped from Factory in Northern Illinois

Post Mauls



55¢ With Handle

Cast iron mauls, with taper eye. Handle will not slip off. Complete with 3-foot hickory handles. Give weight. Shipping weight is same as average weight.

Average weight pounds......	10	13	18
484 C 5650—	55¢	70¢	$1.00

Post-Maul Handle

Hickory handle, turned. Length, 36 inches. Shipping weight, 1¼ pounds.

484 C 5651......**20¢**

Post Hole Tamper and Digger

$1.40

Forged steel with tempered ends. For setting fence posts, cutting roots, prying out rocks. One end has sharpened blade. Length, 5½ feet, width of blade, 3 inches. Shipping weight, 18 pounds.

484 C 5654.....**$1.40**

Post Hole Diggers

Eureka Pattern

Split hardwood handles. Malleable iron shanks. Cast steel blades, tempered, 9 inches long. Convenient arrangement of handles as shown. Total length, 5 feet. Shipping weight, 8½ pounds.

484 C 5633.**$1.25**

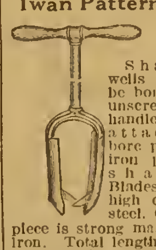
Atlas Pattern

The arrangement of hinges enables the blades to be opened or closed without moving the handles far. A fast reliable digger. Total length, 59 inches. Shipping weight, 10 pounds.

484 C 5630.**$1.40**

Post Hole and Well Augers

Iwan Pattern



Shallow wells may be bored by unscrewing handle and attaching bore pipe to iron pipe shank. Blades are high carbon steel. Cross-piece is strong malleable iron. Total length, 4 to 6 feet. Shipping weights, 6½ to 10½ pounds.

Art. No.	Diam.	Each
484 C 5636	4 in.	$1.55
484 C 5637	6 in.	1.60
484 C 5638	8 in.	1.75
484 C 5639	9 in.	1.35

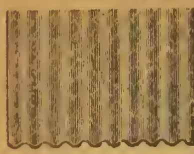
Vaughn's Pattern

Vaughn's Post Hole Auger. For quick and easy work in every kind of soil. Stem is wrought steel pipe. Blades are solid steel Hardwood top cross handle. Total length, 44 inches. Shipping weight, 6 pounds.

Art. No.	Diam.	Each
484 C 5640	8 in.	$1.35
484 C 5641	9 in.	1.45

Ward's Wood Preservative adds years to your fence posts, Page 631

Corrugated Steel Roofing and Siding



2½ in. Corrugations

1¼-in. Corrugations

Read the general description. Made with 1¼-inch and 2½-inch corrugations. Sheets are 26 inches wide, but should be lapped one corrugation, so **one sheet will cover a space 24 inches wide.** Be sure to allow for end lap also.

Galvanized sheets have a heavy rust-resisting protective coating of spelter.

Painted sheets have one coat of red mineral paint on both sides

Order by sheets and state length and number of sheets. Use the table below.

Length feet	5	6	7	8	9	10	12
Sq. ft. per sheet	10⅚	13	15⅙	17⅓	19½	21⅔	26
One sheet will cover with no end lap, sq. ft.	10	12	14	16	18	20	24

Remember to allow for end lap.

A "square" is 100 square foot of roofing. Without end laps it requires 108 square foot to cover 100 square foot of surface. A square will cover on the average 90 square feet of surface.

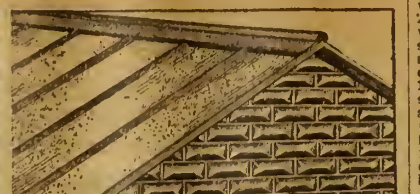
Buy Now. Protect Your Buildings. The best building investment you can make now.

(Prices subject to market change.)

$3.25 Per 100 Sq. Ft.

Metal Roofing and Siding

Permanent and Economical Protection



For Permanence and Protection from Fire and Lightning

Has any building you know about ever been damaged by lightning while protected by metal roofing and siding? This protection has always been economical; but now it is a bargain which you can not afford to miss. Our prices are practically at the pre-war level in spite the fact that other prices have not yet come all the way down.

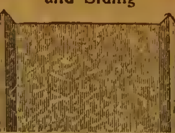
Our Metal Roofing and Siding are made of fine open hearth sheet steel. We recommend the heavy No. 26 gauge, galvanized, because it lasts longest and is therefore most economical. Will give double the service of other styles.

It may be applied directly over old sheathing or shingles or on the studding itself. Very easy to apply. A hammer and tinner's shears are the only tools needed. Prices do not include paint or nails. Order one pound of 1¾-inch barbed roofing nails for each square (100 square feet). If you are not sure of the number of sheets you need send us a rough sketch showing the dimensions and we will figure the correct number.

Remember to allow 2 inches for end lap for siding and 4 to 5 inches for roofing.

Painted sheets have a coat of red mineral paint on both sides but should be painted again after being laid.

V-Crimp Steel Roofing and Siding



2-V Crimp

3-V Crimp

Read the general description. Made with 2 V-crimps, one at each edge, or with 3, one at each edge, one in center. **One sheet will cover a space 24 inches wide** and is called a 24-inch sheet, so **when you buy 100 square feet of this roofing you get enough to cover 100 square feet of surface, without** allowing for end laps. **Galvanized** sheets have a heavy rust-resisting protective coat of spelter on both sides. **Painted** sheets have one coat of red mineral paint on both sides. Made in two gauges of which No. 28 is the heavier. Always nail through V-strip shown below A square of roofing requires 50 feet of V-strip and 1½ pounds of 1¾ barbed roofing nails for 2-V and 100 feet of strip and 2 pounds of nails for 3-V. **Order by sheets and state length and number of sheets. Remember to allow for end laps. Buy Now. Protect Your Buildings.**

(Prices subject to market change.)

Wood V-Strips

For V-Crimped Roofing and Siding. Requires 50 feet for a square of 2-V and 100 feet for a square of 3-V. Shipping weight, per 100 lineal feet, 20 pounds.

284 C 5005-Per 100 lineal feet . . . . . **75¢**

Shipped from Factory in Iowa

Corrugated Steel Roofing and Siding

Article Number	Finish	Gauge	Corrugation	5-Ft. Sheet	6-Ft. Sheet	7-Ft. Sheet	8-Ft. Sheet	9-Ft. Sheet	10-Ft. Sheet	12-Ft. Sheet	Per 100 Sq. Ft. Ship. Wt.	Per 100 Sq. Ft. Price
284 C 4980	Painted	No. 28	2½ in.	35¢	42¢	49¢	56¢	63¢	$ .70	$ .85	68 lbs.	$3.25
284 C 4983	Painted	No. 28	1¼ in.	36¢	43¢	50¢	57¢	64¢	.71	.86	68 lbs.	3.30
284 C 4986	Galvanized	Stand.	2½ in.	47¢	57¢	66¢	76¢	86¢	.96	1.14	77 lbs.	4.40
284 C 4987	Galvanized	No. 26	2½ in.	52¢	62¢	73¢	83¢	93¢	1.04	1.24	98 lbs.	4.80
284 C 4989	Galvanized	Stand.	1¼ in.	47¢	57¢	66¢	76¢	86¢	.96	1.14	77 lbs.	4.40
284 C 4990	Galvanized	No. 26	1¼ in.	52¢	62¢	73¢	83¢	93¢	1.04	1.24	98 lbs.	4.80

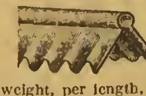
V-Crimped Steel Roofing and Siding

Article Number	Finish	Gauge	Crimps	5-Ft. Sheet	6-Ft. Sheet	7-Ft. Sheet	8-Ft. Sheet	9-Ft. Sheet	10-Ft Sheet	Per 100 Sq. Ft. Ship. Wt.	Per 100 Sq. Ft. Price
284 C 4994	Painted	No. 28	2-V	33¢	40¢	47¢	54¢	60¢	66¢	69 lbs.	$3.30
284 C 4997	Painted	No. 28	3-V	35¢	42¢	49¢	56¢	63¢	70¢	70 lbs.	3.50
284 C 5000	Galvanized	Stand.	2-V	45¢	54¢	63¢	72¢	81¢	90¢	78 lbs.	4.50
284 C 5003	Galvanized	Stand.	3-V	47¢	57¢	66¢	76¢	85¢	94¢	79 lbs.	4.70

Shipped from Factory in Central Ohio or Iowa

65¢ Ridge Roll 65¢

Corrugated Ridge Roll

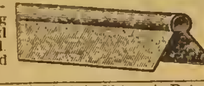


Standard gauge, galvanized steel. Length, 10 feet. To fit corrugated roofing. Size of girth, 12 inches. Shipping weight, per length, 7 pounds.

184 C 5044—To fit 2½-inch corrugated. Diam. roll 2 inches. Per 10-foot length . . . . **65¢**

184 C 5045—To fit 1¼-inch corrugated. Diam. roll, 1½ inches. Per 10-foot length . . . . **65¢**

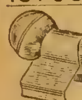
Plain Ridge Roll



For any flat surface roofing, or for corrugated iron by using wood strips. Standard gauge, galvanized steel. Lengths, 10 feet. Wood strips not included.

Article Number	Width of Roll	Girth In.	Ship. Wt. Lbs.	Price Each
184 C 5040	1¼ in.	7	4½	32¢
184 C 5041	1½ in.	8	5	38¢
184 C 5042	2 in.	10	7½	45¢

Galvanized Globe Finial



To fit plain ridge roll shown above. Heavy galvanized sheet steel. Shipping weight, 1 pound.

To fit roll, inches	1¼	1½	2
Diam. ball, inches	2½	2½	3
84 C 5053	**18¢**	**20¢**	**25¢**

Galvanized Gable Finial

To fit corrugated or plain ridge roll shown above. Heavy galvanized steel. Will fit either 1¼, 1½ or 2-inch roll. Ship. wt., 1 lb.

Length	10 in.	12 in.
Height	8 in.	10½ in.
84 C 5054 . . .	**30¢**	**35¢**

Galvanized Gable Finial

To fit hip shingles shown above. Heavy galvanized steel. Shipping weight, 1 pound.

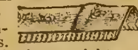
84 C 5055 . . . . **30¢**

Galvanized Hip Finial

To fit hip shingles shown above. Heavy galvanized steel. Shipping weight, 1 pound.

84 C 5056 . . . . **30¢**

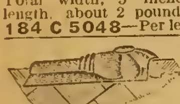
Continuous Hip Shingles



Standard 28-gauge galvanized steel. In 5-foot lengths. Total width, 5 inches. Shipping weight, per length, about 2 pounds.

184 C 5048—Per length . . . . **16¢**

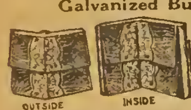
Ornamental Hip Shingles



One to each course. Galvanized. Size, 4 by 9 inches. Shipping weight, per hundred, 25 pounds.

84 C 5050—For 50 . . . . **$1.10**
For 100 . . . . **2.00**

Galvanized Building Corners



Sheet steel. Correct pitch. Punched for nails. Shipping weight, per hundred corners, 10 pounds.

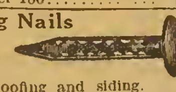
84 C 5034—Outside corners.
84 C 5035—Inside corners.

State style and size

For 4-inch siding. Per 100 . . . . **$1.25**
For 6-inch siding. Per 100 . . . . **1.35**

Barbed Roofing Nails

6¢ Per Pound



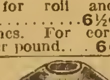
For sheet metal roofing and siding. Shipping weight. per 5 pound package, 6 pounds.

84 C 5090—Length, ⅞ inch for siding. Per pound . . . . **6½¢**

84 C 5091—Length, 1-inch for roll and cap roofing. Per pound . . . . **6½¢**

84 C 5092—Length, 1¾ inches. For corrugated and V-crimped roofing. Per pound . . **6¢**

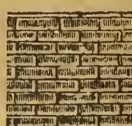
Lead Roofing Washers



To go under the nail head. Prevents leak around the nail hole Recommended for corrugated roofing. About 325 washers in one pound and it requires ½ pound for each square. Shipping weight 17 ounces.

84 C 5008—Per 1 pound package . . . . **12¢**
Per 5 pound package . . . . **55¢**

Steel Pressed Brick Siding



Easy to apply. A neat, strong, fire-resisting surface. Made of annealed sheet steel, U. S. standard gauge 28. The single brick measures 2⅗ by 8¼ inches. When painted red with mortar lines striped in white it produces a very handsome effect. In sheets 28 by 60 inches, 11⅔ square feet to sheet. Prices quoted do not include nails or extra paint. Shipping weight, per square, painted, 64 pounds; galvanized, 78 pounds.

284 C 5012—Painted, per sheet . . . . **40¢**
284 C 5013—Galvanized, per sheet . . . . **54¢**

Rock Face Steel Siding

Steel Rock Face Brick Siding. Same as pressed brick shown at left, except that it is finished with Rough Rock Face effect. A very serviceable and pleasing exterior covering for garages, barns, etc. Shipping weight, per square, painted, 64 pounds, galvanized, 78 pounds.

284 C 5014-Painted. Per sheet . . **40¢**
284 C 5015-Galvanized. Per sheet. **54¢**

Shipped from Central Ohio or Iowa.

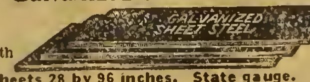
Galvanized Batten Strips

For Filling Cracks Between Boards

Widely used for filling the cracks between boards on barns, and on wallboard in place of wood strips. Makes barns and granaries weather and vermin proof. Will not warp, split or draw away from boards. Width 2 inches. Grooved in middle to expand and contract with boards. Made of galvanized sheet steel punched for nails. In bundles of 25 pieces. Prices subject to change. **State size.**

Length, feet	6	7	8	9	10
Ship. weight, pounds.	25	32	35	40	45
184 C 5030— Bundle (25 lengths) .	**$1.90**	**$2.25**	**$2.50**	**$2.80**	**$3.25**

Galvanized Sheet Steel



Smooth sheets.

Sheets 28 by 96 inches. State gauge.

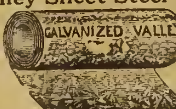
Gauge	24	26	28
Sheets in bundle . . .	7	9	10
Ship. wt., per bundle	151 lbs.	152 lbs.	146 lbs.
284 C 5022— Per bundle	**$7.15**	**$7.50**	**$7.73**

Sheets 30 by 96 inches. State gauge.

Gauge	24	26	28
Sheets in bundle . . .	7	8	10
Ship.wt., per bundle	162 lbs.	145 lbs.	156 lbs.
284 C 5023— Per bundle	**$7.78**	**$7.25**	**$8.25**

Shipped from Central Ohio or Iowa

Galvanized Valley Sheet Steel



Joined together. Width, 14 inches. Sold in full rolls only. (Prices subject to market changes.)

284 C 5070 — No. 28 Gauge.

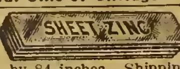
25 feet, shipping weight, 18 pounds **$1.75**
50 feet, shipping weight, 36 pounds **3.45**

284 C 5071—Extra Heavy 26 Gauge.

25 feet, shipping weight, 20 pounds **2.05**
50 feet, shipping weight, 40 pounds **4.00**

Shipped from Central Ohio or Chicago

Sheet Zinc



Regular smooth Sheet Zinc. No. 26 gauge. Size sheet, 36 by 84 inches. Shipping weight, per sheet, 14 pounds.

484 C 5025—Half sheet . . . . **$ .90**
484 C 5025—Full sheet **1.74**

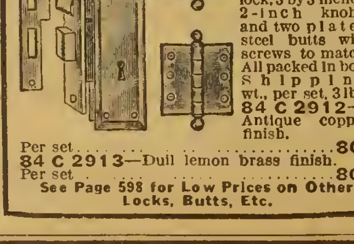
Soft Sheet Copper

Tinned on one side. Not polished.

484 C 5026—14-ounce. Hot rolled. Sheets, 14 by 48 inches. Shipping weight, per sheet, 8 pounds. Per sheet **$1.60**

484 C 5027—16-ounce. Cold rolled. Sheets 30 by 60 inches. Shipping weight, per sheet, 17 pounds. Per sheet **$4.85**

Save on Builders' Hardware



Complete hardware for one door. Royal Lock set, with 2 escutcheons, 7 by 2 inches, mortise lock, 3 by 3 inches. 2-inch knobs, and two plated steel butts with screws to match. All packed in box. Shipping wt., per set, 3 lbs.

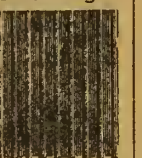
84 C 2912—Antique copper finish. Per set . . . . **80¢**

84 C 2913—Dull lemon brass finish. Per set . . . . **80¢**

See Page 598 for Low Prices on Other Locks, Butts, Etc.

Beaded Steel Ceiling and Siding

Fire-resisting Easy to Put Up



Made of annealed sheet steel, standard gauge. Painted both sides with red mineral paint. With small beads or corrugations ⅜ inch deep and ⅝ inch wide and 3 inches from center to center, running lengthwise. Width of sheets, from center to center of the outside beads, 24 inches. When ordering allow for end lap. Supplied only in 8-foot sheets. Shipping weight, per 100 square feet, 69 pounds.

284 C 5010—Per 100 square feet **$3.80**
Per 8-foot sheet . . . . **.62**

Shipped from Central Ohio or Iowa

Black Sheet Steel

Smooth sheets.

Sheets 30 by 96 inches. State gauge.

Gauge	24	26	28
Sheets in bundle	7	10	12
Ship. wt., per bundle	140 lbs.	150 lbs	150 lbs."
284 C 5021— Per bundle	**$5.45**	**$5.85**	**$5.95**

Sheets 24 by 101 inches. State gauge.

Gauge	26	28
Sheets in bundle	12	14
Ship. wt., per bundle	151 lbs.	147 lbs.
284 C 5024—Per bundle . .	**$5.85**	**$5.80**

Shipped from Central Ohio or Iowa

Painted Roll Tin Roofing

Convenient and easy to use. Best I. C. tin plate. 0.0125-inch thick. Locked and soldered. Painted on under side. Width of strip, 20 inches. Length, 120 feet. Sold only in rolls containing 200 square feet. Shipping weight, per roll, 107 pounds.

484 C 5060—Per roll **$12.95**

Painted Valley Tin

Made of good grade of tin plate in a continuous strip locked and soldered. In rolls of 25 feet and 50 feet. Painted on one side. (Prices subject to change.)

Article Number	Wd. In.	Ship. Wt.	25-ft. Roll	50-ft. Roll
284 C 5064	7	16 lbs.	$ .80	$1.55
284 C 5065	14	32 lbs.	1.55	3.05
284 C 5066	20	40 lbs.	2.30	4.55
284 C 5067	28	60 lbs.	3.20	6.35

Shipped from Central Ohio or Chicago

I. C. Tin Terne Roofing Plates

Thickness .0125 Inch

With a smooth lead colored surface. Used mostly for roofing purposes. Size, 20 by 28 inches; 112 sheets in a box. Samples on request. Shipping weight, per box 209 pounds.

484 C 5028—Per sheet . . . . **$ .17**
184 C 5028—Per box **16.90**

Tin Shingles or Flashings

For repairing old roofs and around chimneys.

84 C 5078—Size, 5 by 7 inches. Shipping weight, per 100, 13 pounds.
Per 100 . . . . **$1.48**

84 C 5079 — Size, 7 by 10 inches. Shipping weight, per 100, 26 pounds.
Per 100 . . . . **$2.90**

NOTE: Prices on all sheet metals subject to market changes, but we always give lowest prices.

Metal Ceiling $4.00

284 C 5104

284 C 5100

Fire-retarding, Dustproof, Sanitary and Economical.

Adapted for use in churches, halls, lodge rooms, theaters, hotels, restaurants and private homes. **Eliminates all danger of falling plaster. Lasts a Lifetime.**

Our Metal Ceilings are made of steel. The embossed design is clear and deep. Edges of sheets and borders and moldings are made so they will go together properly and not leave a gaping seam. Corners and miters are made of one piece. No difficult cutting and fitting to do on the diagonal. Very easy to put up.

We send you a working plan of the finished ceiling which enables you to put up your ceiling correctly without any trouble.

How to Order

Give us the sizes of the room and a sketch showing all offsets with their dimensions clearly shown. We will figure the exact amount of ceiling needed in the style you select and ship it to you together with complete directions and plan for putting up. Write for our Building Material Catalogue which shows more styles.

How to Estimate Price

Figure the number of square feet in your ceiling. Do not deduct the size of any skylight or other opening unless it is over 100 square feet. For number 5104 add 6 inches times the total length of your walls to allow for the drop of the cornice which runs down the wall 6 inches. The price shown is for a "square" of 100 square feet, that is, enough ceiling to cover 100 square feet. For number 5100 figure the length of cornice and the number of miters separately. The length of cornice is the total length of walls along which you want the ceiling edged with cornice. The number of miters is the number of corners in the cornice.

Enough nails, and wooden brackets for cornice are included with the shipment and included in the prices quoted below. If you wish to use furring strips to nail on the ceiling first where the joints in the metal ceiling will be nailed, order them separately.

Shipping weight, per square, 100 pounds.

284 C 5100—(Shown at right above). Center design plate only. Per 100 square feet . . . **$4.00**

284 C 5101—Cornice to match as shown in illustration. Per foot . . . . **8¢**

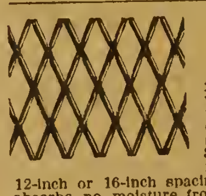
284 C 5102—Miters (corner sections). Each . . . . **30¢**

284 C 5104—(Shown at left above). Steel ceiling with center plate, cornice, filler (between center plate and cornice) and miters complete. Per square **$4.70**

Shipped from Factory in Northern Illinois

See our Building Material Catalogue for Other Styles

Metal Lath Fireproof



Expanded Metal Lath for interior and exterior work; holds mortar or plaster securely, made of 26 gauge steel painted sheets 27 inches wide and 8 feet long, thus permitting the use of either 12-inch or 16-inch spacing of joists. Metal lath absorbs no moisture from the first wet plaster, hence does not swell, then dry out and later draw away from the plaster. Metal lath walls and ceilings dry out quickly and evenly and there is no moisture from the metal to stain the plaster or cause alternating light and dark streaks such as are so often noticeable when wood lath is used. It is easily formed around openings, corners or angles, or bent to any desired shape without breaking the strands. One sheet contains 18 square feet or 2 square yards. Packed 15 sheets in a bundle. Shipping weight, per bundle, 68 pounds.

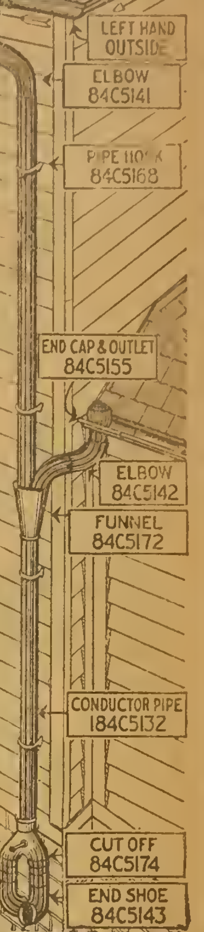
284 C 5080—Per sheet . . . . **45¢**

Shipped from Eastern Ohio

See Page 592 for Tinners' Snips

35¢ Ten Feet Eave Trough Best Grade Steel Galvanized Down Spout Ten Feet 40¢

A slip joint makes it easy for any one to put up this Trough. Simply push sections together. No tinner needed. Makes a neat, tight job and requires no soldering at the joint. Always state whether right or left-hand trough is wanted, or send sketch showing position of outlets. Right hand means that, as you face the building, the water in trough will flow to the right. We recommend the extra heavy 26 gauge. Costs no more to put up, lasts twice as long as standard gauge and at our prices will give you a big saving. **Prices subject to market changes.**



Galvanized Eave Troughs

Made of best grade galvanized sheet steel in 10-foot lengths without a seam. One end of each length is made with a slip-joint, quickly put together; requires no soldering. **Not mailable.** In two grades. Standard and Extra Heavy.

Standard Gauge

Size, inches, top....	3½	4	5	6
Ship. wt., per 10 feet .	4½	5	6½	7½
184 C 5120 — Right-hand. Per 10 feet...	35¢	40¢	49¢	63¢
184 C 5121 — Left-hand, per 10 feet.....	35¢	40¢	49¢	63¢

Extra Heavy 26 Gauge Eave Trough

Size, inches, top.	3½	4	5	6
Ship. wt., per 10 feet .	5	5½	7½	9¼
184 C 5122 — Right-hand. Per 10 feet.....	45¢	50¢	60¢	75¢
184 C 5123 — Left-hand. Per 10 feet....	45¢	50¢	60¢	75¢

Galvanized one piece Eave Trough Corners. Extra heavy, 26 gauge slip joint.

Size, inches	3½	4	5	6
Shipping weights, ounces....	14	16	19	22
84 C 5148—Inside bead. Ea..	23¢	25¢	28¢	36¢
84 C 5149—Outside bead. Ea.	23¢	25¢	28¢	36¢

State if right or left hand is wanted.

Galvanized Drop Outlets

For slip-joint eave trough; 26 gauge galvanized steel. Ship. wts., 10 to 15 ounces. **84 C 5156**

Trough Size	Outlet Size	Price, Each
3½ inches	2 inches	17¢
4 inches	2 inches	19¢
5 inches	3 inches	21¢
6 inches	4 inches	24¢

Wire Eave Trough Hangers

For attaching eave trough to roof. Made of heavy galvanized wire. Article Number **84 C 5164**

Size, In.	Ship. Wt.	Per Doz.
3½	19 oz.	22¢
4	20 oz.	24¢
5	26 oz.	26¢
6	28 oz.	29¢

Charcoal Rainwater Filter

Keeps your cistern clean. Removable top-strainer. Lower compartment to be filled with charcoal; an adequate purifier. **184 C 5180** — For 3-inch conductor pipe. Diameter, 12 inches; height, 30 inches. Requires 15 pounds charcoal. Ship. wt., 20 pounds... **$6.95**
184 C 5181—For 4-inch conductor pipe. Diameter, 16 inches; height, 30 inches. Requires 20 pounds charcoal. Ship. wt., 24½ pounds .. **$8.70**
184 C 5183—Charcoal, 20-pound bag... **.55**
184 C 5184—Charcoal, 15-pound bag... **.35**

O-G Box Eave Trough

A fine finish for the eaves of the roof. Extra heavy 26 gauge galvanized steel. In 10-foot lengths; allow 2½ inches for joints. No slip joints. Depth, front, 5 inches; width, 4 inches. Shipping weight, per 10-foot length, 10 pounds.
184 C 5128—Per 10-foot length........ **90¢**

Hangers for O-G Trough

12 inches long; width, 1 inch. No. 16 gauge galvanized steel; punched for nails. Shipping weight, per dozen, 3½ pounds.
84 C 5166—Per dozen.................. **70¢**

O-G Eave Trough Corner

Extra heavy No. 26-gauge galvanized steel. Require soldering to trough ends. Depth, 5 inches, width, 4 in. Shipping weight, 1 pound.
84 C 5161 .... **80¢**

Corrugated Conductor Pipe

Galvanized steel, corrugated to allow for expansion and contraction and will not burst, even if full of ice. We suggest that you use 2-inch conductor pipe with 3½ and 4-inch eave trough. Use 3-inch pipe for 5-inch trough and 4-inch pipe for 6-inch trough. Strongly made of best galvanized steel. Allow 2½ inches on each length for joints. **Not mailable.**

Standard Gauge Conductor Pipe

This is the grade commonly used, but for longer service we recommend the extra heavy grade. 10-foot lengths.
184 C 5132

Size In.	Ship.Wt. Lbs.	Price Each
2	5	40¢
3	6	48¢
4	8	64¢
5	10	80¢

Extra Heavy 26 Gauge

Durable conductor pipe. 10-ft. lengths.
184 C 5133

Size In.	Ship. Wt. Lbs.	Price Each
2	7	$ .49
3	8	.60
4	11	.80
5	12	1.00

Corrugated Shoes

For bottom end of conductor pipe. Made of galvanized steel.
State size wanted

Size, inches .	2	3	4	5
Ship. wt., oz.	7	8	14	23
84 C 1543	18¢	21¢	33¢	60¢

Revolving Chimney Top

Produces a strong, regular draft under almost all conditions, and prevents down draft. The iron mountings are substantial; top is pivoted so as to revolve easily. Hood and vane are of heavy galvanized iron.

Diam. of base, in.	6	7	8
Shipping weight pounds..........	5	6	7
84 C 5094....	$1.40	$1.60	$1.85

Wide Girth Slip Joints Eave Trough

Galvanized steel, Standard gauge, with slip joints. In 10-foot lengths. Fits under the shingles near the eaves. Allow 2½ inches on each length for the joint.
Width of girth, 14 inches. Has roll 3 inches high. Flat surface, 9 inches wide. Shipping weight, 8 pounds.
184 C 5124—Right hand .... **95¢**
184 C 5125—Left hand.............. **95¢**

Conductor Pipe Cut-Off

Has safety spring to turn water from one pipe to another. Heavy galvanized steel.

Size	Ship.Wt.	84 C 5174
2 in.	1 lb.	$ .39
3 in.	1¼ lbs.	.48
4 in.	2 lbs.	.66
5 in.	2½ lbs.	1.10

Drop Outlet Tube for O-G Eave Trough

Diameter, 3 inches. Shipping weight, 10 ounces.
84 C 5157...... **10¢**

O-G Trough Ends

For O-G box trough. Require soldering to trough ends. Extra heavy No. 26 galvanized steel. Shipping weight, ½ pound.
84 C 5160... **16¢**

Down Spout Strainer

Galvanized wire. Shipping weights, 4 to 12 ounces.

Size.......	2 in.	3 in.
84 C 5170..	10¢	13¢
Size.......	4 in.	5 in.
84 C 5170..	22¢	27¢

Galvanized Funnel

Size means diameter of lower outlet. Heavy galvanized steel.

Size, in.	2	3	4
Wt., oz..	12	18	20
84C5172	24¢	30¢	42¢

Galvanized Round Corrugated Elbows

For Conductor Pipes

Three different angles at same price. Of galvanized steel.

84C5140 45 deg. 84C5141 60 deg. 84C5142 75 deg. **State Number and size.**

Size, inches	2	3	4	5
Shipping weight, ounces ..	6	8	11	20
Each..................	10¢	13¢	22¢	50¢

Chimney Cap

Protects the bricks and lasts as long as the chimney. Fastens securely with malleable corner clamps. Diameter of collar, 7 inches. Size of base, 12⅜ by 16⅜ inches. Clamps may be adjusted to fit 4 by 8, 4 by 12, 8 by 8 or 8 by 12-inch flues. Shipping weight, 15 pounds.
84 C 5093........................ **$1.48**

Galvanized Spout Ends

Right or left hand. Illustration shows right-hand. Girth, 14 inches. Outlet, 2 inches. Shipping weights, 10 to 12 ounces.
84 C 5159...... **26¢**

Galvanized Slip End

Right or left hand. Illustration shows left hand. 14-inch girth. Shipping weights, 14 to 19 ounces.
84 C 5158...... **20¢**

End Caps

For slip-joint trough right or left. Galvanized steel. Shipping weights, 2 to 5 ounces.
84 C 5155

3½ inches.........	7¢
4 inches.........	8¢
5 inches.........	9¢
6 inches.........	10¢

Conductor Hooks

Malleable iron, galvanized. Shipping weights, per dozen, 2 to 4½ pounds.

Size	84 C 5168-Doz.
2 inches	$ .37
3 inches	.60
4 inches	.90
5 inches	1.30

Hinged Conductor Hooks

To fasten corrugated conductor pipe on wood buildings. Malleable iron, tinned. Shipping weights, 2 to 5 ounces. State size.
84 C 5169

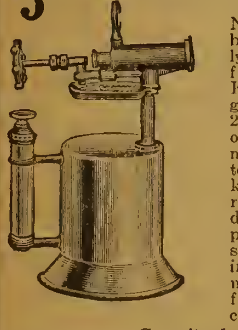
Size, in.	2	3	4	5
Dozen..	95¢	1.35	1.95	2.65

Complete line of builders' Hardware shown on Pages 598 and 599.

Highest Grade Blow Torches and Gasoline Furnaces

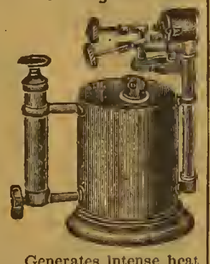
Gasoline or Kerosene Blow Torch

$3.45



Brass body. New Bronze burner specially constructed for burning Kerosene. Will generate heat to 2300 degrees F. or 400 degrees more than other torches of its kind. Easily regulated. Indispensable for paint burning, soldering, thawing pipes. Removable holder for Soldering copper.
84 C 5220—Capacity, 1 pint. Height, 7 inches. Shipping weight, 3 pounds. **$3.45**
84 C 5221—Capacity, 1 quart. Height, 9 inches. Ship. weight, 4 pounds. **$3.85**

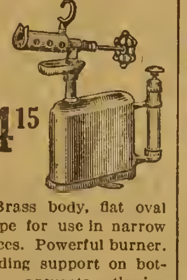
Double Jet Gasoline Brazing Torch



Generates intense heat of about 3000 degrees (Fahrenheit). Will produce large or small, pointed flame. Fine for brazing or tempering. Made of heavy brass and bronze. Pump is in handle. Capacity of tank, 1 quart. Height over all, 9 inches. Directions included. Shipping weight, 4 pounds.
84 C 5226 .. **$8.50**

Gasoline Auto Torch

$4.15



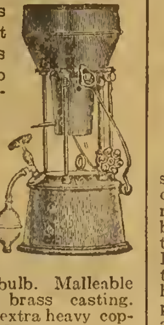
Brass body, flat oval shape for use in narrow places. Powerful burner. Folding support on bottom prevents tipping over. Fitted with soldering iron holder. Pump is contained in the handle. Capacity, 1 pint; height over all, 9 inches. Shipping weight, 4 pounds.
84 C 5224...**$4.15**

Gasoline Torch and Sprayer

$3.95

Burner gives hot flame. Separate nozzle throws fine stream of gasoline for cleaning machinery, destroying vermin and similar uses. Well made and finely finished. Capacity, 1 quart. Height, 9 inches. Shipping weight, 5½ pounds.
84 C 5222...**$3.95**

Gasoline Furnace



Produces a very hot flame. Has shield to hold melting pot. Melting pot not included. Heavy galvanized iron tank. Rubber pressure bulb. Malleable iron and brass casting. Burner is extra heavy copper pipe. Consumption, 1 pint of gasoline per hour. Height over all, 17¾ inches. Diameter, 8¼ inches. Shipping weight, 10 pounds.
484 C 5232... **$4.25**

Combination Gasoline Torch

$8.75

Heavy, drawn steel, enameled gasoline tank. A heavy rim projects ½ inch below the bottom of tank for protection. Has brass pump in tank and brass filler cap. Removable hood. Burner may be swung in any position. Produces a hot flame. Will heat a pot of lead and a pair of soldering coppers at the same time. Burners are not affected by wind or weather. Well made and durable. Capacity, 3 quarts. Height over all, 12 inches. Diameter, 8¼ inches. Shipping weight, 12 pounds.
484 C 5234................ **$8.75**

Soldering Copper—Solder—Babbitts

Soldering Coppers

Without Handle

For tinners' use. Without wood handle. Weights given are for one copper. Shipping weights are 1 to 3 pounds above actual weights.

Wt., lbs.	¾	1	1½	2
84 C 5208..	21¢	29¢	39¢	50¢

Handles Only

Wood handles. Shipping weight, 2 ounces.
84 C 5209—Ea.. **4¢** Dozen... **42¢**

Soldering Salts

One of the cleanest and most effective Soldering Fluxes made. Dissolved in water, and applied with brush. Causes solder to flow readily and insures tight joints or seams. Non-corrosive and will not injure hands. With directions.
84 C 5210 — ½-pound bottle. Shipping weight, 1¾ pounds. .... **28¢**
84 C 5211 — 1-pound bottle. Shipping weight, 3 pounds. **39¢**

Handy Soldering Set

Small soldering copper, scraper, box resin and piece of solder in paper box. Smaller capacity than other sets, yet very useful. Ship weight, per set, 12 ounces.
84 C 5215—Per set ..... **24¢**

Speco Solid Sal-Ammoniac

For cleaning and tinning soldering coppers. The quickest and handiest way. A well tinned copper gives most heat to the work. Shipping weight, per cake, 4 ounces.
84 C 5212—Per cake.. **22¢**

Gem Soldering Set

Soldering copper, scraper, and bar of solder and box of resin in wood box. Shipping weight, per set, 1¼ pounds.
84 C 5217—Per set..... **87¢**

Iron Melting Ladles

For melting babbitt metals and lead. **State size.**

Diam. In.	3	4	5
Ship. wt., lbs...	1	1½	3
84 C 5206..	15¢	25¢	38¢

The easiest Flux to work with. Highly concentrated. For any metal except aluminum. Shipping weight, 9 ounces.
84 C 5213—Per ½-lb. can. **28¢**

Wire Solder

Half and half tin and lead. Diameter, ⅛-inch. Shipping weight, per pound, 18 ounces.
84 C 5192—Per pound. **29¢**

Tinners' Solder

Guaranteed 50 per cent pure tin and 50 per cent pure lead. Ship. wt., per bar, 1¾ pounds.
84 C 5190—Per bar..... **45¢**

Bar Tin

Genuine, new; pure tin. Shipping weight, per pound, 18 ounces.
84 C 5193—Per bar.... **65¢**

No. 1 Babbitt Metal

For all light, fast running machinery. Shipping weight, per pound, 1¼ pounds.
84 C 5203—Per pound.. **12¢**

No. 3 Babbitt Metal

For pulleys and line shafting. Shipping weight, per pound 1¼ pounds.
84 C 5204—Per pound. **10½¢**

Lakeside Babbitt Metal

Suitable for either light or heavy bearings. Will not cut or heat journals. Weight, per bar, 5 pounds. Shipping weight, per bar, 6 pounds.
84 C 5200—Per pound.. **19¢**

Pig Lead

Plumbers' 6¼-pound pig lead bars. Shipping weight, per pound, 18 ounces.
84 C 5196—Per pound.... **9¢**

Bar Lead

In bars of about 4 ounces. Shipping weight, per pound, 18 oz.
84 C 5195—Per pound. **13½¢**

Magnolia Babbitt Metal

Adapted to high and low speed machinery. Shipping weight, per pound, 18 ounces.
84 C 5201—Per pound. **27¢**

Genuine Babbitt Metal

Pure tin, copper and antimony. For all classes of work. Shipping weight, per pound, 18 ounces.
84 C 5202—Per pound. **45¢**

See Page 595 for our Standard Screw-Plates

Cupolas Ventilators

Hog or Poultry House Cupola

$7.25

Heavy galvanized sheet steel construction. Holes on four sides for connecting lightning rod to standard ⅝-inch galvanized rod in the center. Rod extends through the top with an acorn top piece, animal or rooster vane. Shipped taken down and nested. Shipping weights, 35, 50, 55 pounds.

Size of Base	Diam. of Flue	Ht. Ft.	284 C 5095
19¼x19¼	12	5½	$7.25
22 x22	16	6½	8.90
27 x27	18	7½	11.50

Shipped from Factory In Northern Illinois

Large Barn Cupola

$25.35

Galvanized steel bolts and rivets. Edges reinforced with 5/16-inch iron rods. Screened with birdproof netting. Base molding cut in four corners, strongly braced and riveted. Holes on four sides for connecting ⅝-inch lightning rod to a galvanized iron rod in the center. Used for barns from 30 to 60 feet long. Barns over 60 feet, use 2 cupolas. Base molding extends beyond base on each side, 5 inches in the 24-inch size, 4 inches in the 27-inch size, 3½ inches in the 30-inch size. Shipped taken down. Shipping weights, 180, 210 and 220 pounds.

Dia. Flue	Base In.	Ht. Ft.	284 C 5097
24	37x37	11½	$25.35
27	42x42	12½	29.25
30	48x48	13½	32.30

Shipped from Factory in Northern Illinois

Wrought T Hinges

Wrought steel. Sizes below indicate length of the strap. Screws not included.

Light Pattern

Shipping weight, per pair, 4 to 7 ounces,

84 C 3828

Size In.	Width Joint	Per Pair
3	2⅜	5¢
4	2⅝	10¢
5	2⅞	12¢

Extra Heavy

Shipping weight, per pair, 2 to 7½ pounds.

84 C 3830

Size In.	Width Joint	Per Pair
6	4½	20¢
8	5½	35¢
10	7	48¢
12	7¾	72¢

Corrugated Heavy T Hinges

Wrought steel corrugated T Hinges. The corrugations about the joints greatly increase the strength and prevent binding on the pin. Sizes indicate length of the strap. State size. Screws not included.

84 C 3832

Size, In.	Width Joint	Shipping Wt., pair	Size screw	One pair
4	3½	¾ pounds	10	16¢
5	4	1 pounds	10	18¢
6	4½	1½ pounds	10	23¢
8	5½	2 pounds	12	38¢
10	7	4 pounds	14	54¢

Wrought Strap Hinges

Wrought steel. Sizes given are one-half the total length of hinge when open. Screws not included. State size.

84 C 3820—Light Pattern

Size, In.	Width Joint	Ship. Wt., pair	Size screw	One pair
3	1⅛	3 ounces	6	5¢
4	1⅛	5 ounces	7	9¢
5	1 5/16	8 ounces	8	10¢

84 C 3821—Heavy Pattern

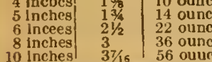
Size, In.	Width Joint	Ship. Wt., pair	Size screw	One pair
4	1½	10 ounces	9	10¢
5	1⅞	15 ounces	9	15¢
6	2½	1¼ pounds	10	18¢
8	2¾	3 pounds	12	30¢
10	3¾	3½ pounds	12	45¢

Heavy Corrugated Strap Hinges

Wrought steel. Strong and stiff. Without screws.

84 C 3824—State Size:

Size, Open	Width Joint	Ship. Wt., Per Pair	Size screw	One pair
4 inches	1⅜	10 ounces	8	9¢
5 inches	1¾	14 ounces	8	14¢
6 inches	2½	22 ounces	10	18¢
8 inches	3	36 ounces	10	30¢
10 inches	3 7/16	56 ounces	14	45¢

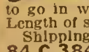


Wrought ScrewStrap Hinge

With pointed screws to go in wood post. Without bolts. State size

Length of strap	10 in.	12 in.	14 in.
84 C 3840—Per Pair	29¢	38¢	49¢

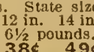
Shipping weights per pair, 4½, 5, 6½ pounds.



Hinge Joint Stay Roller

Wrought steel, iron wheel. Without screws, Shipping weight, 14 ounces.

84 C 3930 ....15¢



Barn Door Bumper

Extra heavy steel. Length, about 8 inches. Shipping weight, 1 pound.

84 C 3937 ......10¢

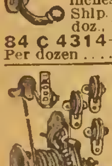
Harness Hooks

Japanned cast iron. 8 inches long. Ship. wt., per doz., 1 pound.

84 C 4314—Each 5¢
Per dozen .... 50¢

Ship. wt., per doz., 1½ to 2 pounds.

Length, inches	10	12
84 C 4316— Each....	$ .19	$ .22
Per doz..	2.10	2.40



Barn Door Hoist For Hay Lofts, etc.

For handling vertical sliding doors in hay lofts. Strong, 5-inch iron drum, self-locking, three pulleys, one clamp, for fastening cable to door. Japanned. Shipping weight, per set, 28 pounds.

484 C 3945—Per set..$5.65

Wire Cable

For above hoist. Strong and durable. Size, 5/16 inch. Shipping weight, per 100 feet, 12½ pounds.

484 C 6450—Per foot .... 5¢

Lightning Rods

Lower Rates of Insurance

10 Feet BELOW SURFACE

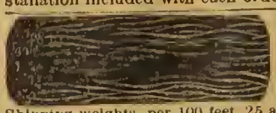
Protect Your Building Reduce Insurance Rates

Insurance Companies allow special reductions on fire insurance for buildings equipped with our lightning rod equipment as specified because our equipment and fixtures are approved by the Underwriters' Laboratories. Uprights must be placed on the highest points of the building, beside chimneys, on top of cupolas or gables, not over 20 feet apart and at least 3 on each building.

This is an easy way to reduce expense and at the same time obtain added protection for your buildings and their contents.

To get correct measurement run a stout cord up one corner of the building to the roof, then along all ridges and to all high points where uprights are to be placed and down on the opposite end of the building. The line can be tacked with a staple every few feet and pulled out when all measured. Be sure to allow enough to connect to everything of metal on or near the roof such as gutters and cornices. Also add 10 feet at each end for grounding.

Uprights are made three-legged of galvanized steel to support the silvered-copper tip and copper tube which connects to lightning rod cable. Complete instructions for installation included with each order.



Heavy Genuine Copper Cable

Made of 99 per cent pure copper. Has ample capacity for the heaviest stroke of lightning. Gives effective protection at lowest cost. Lasts longer than the average building. Always fasten lightning rod directly to building without any insulation. Enough clips and brass screws are included to fasten the cable every 3 feet.

Shipping weights, per 100 feet, 25 and 35 pounds.

184 C 4950—Full size 7/16-inch, 32 wires, commonly called ½-inch size. Per foot........... 7¾¢
184 C 4951—9/16-inch diameter, 44 wires, commonly called ⅝-inch size. Per foot.......... 11 ¢

$5.20 Barn and Garage Door Sets $4.65

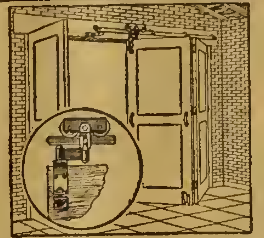
Sliding Garage Door Set For 3 Doors $5.20

Door shown in picture at left opens inward on T hinges. The other 2 doors slide around curved rail alongside wall in front of open single door. You do not need to open entire set to enter or leave the garage on foot.

Set consists of 3 roller bearing hangers, 3 heavy strap hinges size 6-inch, 3 extra heavy T hinges size 8-inch, two extra heavy door pulls, one thumb latch 8 inches long, 1 safety hasp, 7½ inches long with bolts for fastening to door, one set of floor guides with long screws and expansion shield, 1 combination door stop and holder, 3 sections of heavy track, 5 feet 9 inches long, with screws. Entire set is heavily japanned.

Shipping weight, per set, 21 pounds.

484 C 3931—Per set..............$5.20



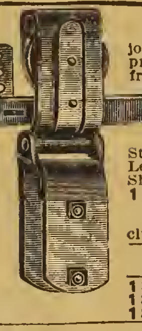
Folding Garage Door Set For 2 Doors $4.65

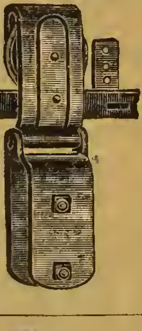
Set for 2 doors only. Works inside or outside either right or left. Always closes doors tightly and when open folds them back out of way. Two sets may be used for four doors or one set and 3 hinges may be used for 3 doors. Set consists of one pivoted sliding hanger with anti-sag adjustment, 8 feet of steel track, six 4 by 4-inch butts, 2 door handles, 1 improved foot bolt, 1 top guide and closer. All Japanned steel. Bolts and screws included except for track. For 4-foot doors only. Same set with additional track may be used for larger doors.

Shipping weight, per set, 30 pounds.

484 C 3923—Per set..............$4.65

75¢ Trolley Barn Door Hangers 75¢





Hangers Only

Roller bearings. Wrought steel wheels. Provided with hinged joint which keeps wheel upright on rail when door swings and prevents jumping off the rail. Guard under rail prevents wheel from lifting off rail if door is raised by an obstruction. Bolts included. Shipping weight, per pair, 7 pounds.

84 C 3900—Per pair..................75¢

Heavy Barn Door Rail Only

Heavy steel, 1¼ by 3/16 inches. Round edge. Steel brackets included. Without screws. Use No. 12. flat heads.

Length	4 ft.	6 ft.	8 ft.	10 ft.
Shipping weight	4 lbs.	6 lbs.	8 lbs.	10 lbs.
184 C 3901—Per rail	35¢	52¢	70¢	85¢

Set complete with hangers and rail

Two hangers and track as above, bolts screws, and brackets included.

Article Number	For Door Width	Length of Track	Ship. Wt., Per Set	Price Per Set
184 C 3913	6 feet	12 feet	17 lbs.	$1.98
184 C 3902	8 feet	16 feet	25 lbs.	2.25
184 C 3903	10 feet	20 feet	30 lbs.	2.65

Trolley Barn Door Hanger

Easy running roller bearing wrought steel wheels. For hard use on heaviest doors. Hinged joint allows door to swing without binding the trolley. Double track prevents jumping off rails. Door hanger may be detached from trolley. Fits doors 1¾ to 2½ inches thick. Bolts and screws included. Shipping weight, per pair, 10 pounds.

84 C 3919—Per pair..................$1.65

Wrought Steel Track for Above Hangers

Brackets not included

Length	4 ft.	6 ft.	8 ft.	10 ft.
Shipping weight	7 lbs.	10 lbs.	14 lbs.	17 lbs
184 C 3920— Per Length	85¢	$1.25	$1.70	$2.10

Steel Brackets for Above Track

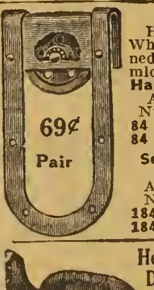
Attach 3 feet apart. Screws not included. Use ⅜-inch lag screws. Use single brackets for one track and double for two tracks, side by side. Shipping weights, ¾ and 4 pounds.

84 C 3921—Single Brackets only. Each..............13¢
84 C 3927—Double Brackets only. Each............50¢

Sets Complete with Hangers, Rail, Etc.

Two hangers, rail, two end brackets, center brackets, screws, bolts.

Article Number	For Door Width	Length of Track	Ship. Wt., Per Set	Price Per Set
184 C 3922	8 feet	16 feet	33 lbs.	$5.75
184 C 3924	10 feet	20 feet	40 lbs.	6.85



69¢ Pair

Roller Bearing Hangers

Hangers and rail of wrought steel. Wheels have roller bearings. Black Japanned finish. A serviceable and economical hanger for barn doors.

Hangers only without Bolts or screws

Article Number	Size No.	In. Wide	Long	Diam. Wheel	Ship. Wt.	Price Pair
84 C 3904	1	5	10¾	3½	6	69¢
84 C 3905	2	6	12	4	9	83¢

Set with two hangers, track, brackets, bolts and screws

Article Number	Size Hanger	For Door Width	Lgth. Track	Ship. Wt.	Price Set
184 C 3911	No. 1	8 ft.	16 ft.	25 lbs.	$2.20
184 C 3912	No. 2	9 ft.	20 ft.	29 lbs.	2.65

$1.10 Pair

Heavy Style

For heavy doors. Wheels roll in slots, on steel axles. Japanned (black) finish. Uses 184 C 3908 rail. Deep grooved wheels hold the rail. Cover protects wheel from weather.

Hangers Only

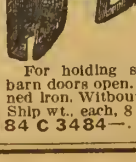
Bolts and Screws not included.

Article Number	Size No.	In. Wide	Long	Ship. Wt. Pair	Price Pair
84 C 3906	3	9	10¼	9 lbs.	$1.10
84 C 3907	4	10½	11½	11 lbs.	1.45

Set with Hangers, Rail, Etc.

Two hangers, track, brackets, bolts, screws. Shipping weights, 29 and 35 pounds.

Article Number	Size	For door Width	Length Track	Price Pair
184 C 3909	3	8 feet	16 feet	$2.60
184 C 3910	4	10 feet	20 feet	3.35

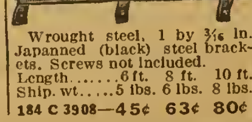


Heavy Door Catch

For holding swinging barn doors open. Japanned iron. Without screws Ship wt., each, 8 oz.

84 C 3484—.... 10¢

Steel Track for Roller Bearing Hangers and Heavy Style Hangers



Wrought steel, 1 by 3/16 in. Japanned (black) steel brackets. Screws not included.

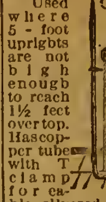
Length	6 ft.	8 ft.	10 ft.
Ship. wt.	5 lbs.	6 lbs.	8 lbs.
184 C 3908—	45¢	63¢	80¢

Uprights for Lightning Rods

Plain Upright

Complete Upright with 5-foot copper tube and T clamp for cable. Silvered tip and galvanized braces. With glass ball: opal; blue; ruby, silver, or gold. State color wanted. Shipping weight, 10 pounds.

84 C 4958 ....$1.30
84 C 4959 — Without ball. $1.05

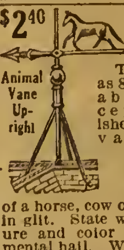


Chimney Top

Used where 5 - foot uprights are not high enough to reach 1½ feet over top. Has copper tube with T clamp for cable, silvered tip. With eyebolt for fastening. Ship. wts., 4 to 6 lbs.

84 C 4964

Length	Each
6 feet	$ .90
8 feet	1.15
10 feet	1.30



$2.40 Animal Vane Upright

The same as 84 C 4958 above except furnished with vane as shown in picture. Figure of a horse, cow or rooster in gilt. State which figure and color of ornamental ball. Wt. 10 lbs.

84 C 4962.. $2.40

$1.80 Arrow Vane Upright

The same as 84 C 4958 above except furnished with vane as shown in picture. Arrow only in gilt. State color of ornamental ball wanted. Ship. weight, 10 lbs.

84 C 4960 $1.80

Cable Connectors

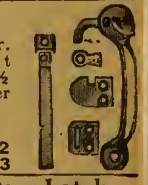
Solid brass prongs hook over ends of cable to be joined and fastened by hammering shut. Shipping weight, 2 ounces.

84 C 4953......8¢

Branch Cable Connectors

Solid brass prongs hook over the main cable where desired. Fastened by hammering shut. Branch cable clamps with a screw Shipping weight, 3 ounces.

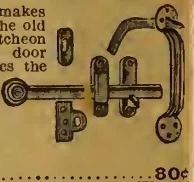
84 C 4952....10¢



Iron Thumb Latch

Cast Iron with wrought bar. Japanned finish. Without screws. Length, about 6½ inches. Shipping weight, per dozen sets, 1 pound.

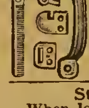
84 C 3273
Per set..............$ .12
Per dozen sets........ 1.33



Garage and Barn Door Latch

Of wrought steel which makes this set far superior to the old cast iron latch. The escutcheon blade over side of the door covers the hole and gives the latch a finished appearance. Length, handle, 10½ inches. Length of bar, 12 inches. Set complete as illustrated, heavily Japanned. Shipping weight, 3½ pounds.

84 C 933 ....80¢



Steel Thumb Latch

All wrought steel, Japanned. With screws. Shipping weights 8 and 16 ounces.

84 C 3278— Length, 5½ inches..........13¢
84 C 3279— Length, 7½ inches..........20¢

Steel Safety Hasp

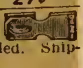
When locked the screw heads are concealed. Length of strap, 4½ inches. With screws.

84 C 3855—Japanned. black...........20¢
84 C 3857—Galvanized..................26¢

Hinge Hasp

Wrought steel. Without screws. Shipping weight, each, 8 to 18 ounces.

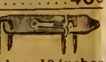
Length Strap	Full Length	84 C 3854
3 inches	6 inches	6¢
4½ inches	7¾ inches	8¢
8 inches	12¼ inches	15¢
10 inches	15⅜ inches	27¢



Brass Security Hasp

Polished cast brass. Size, closed, 3¾ by 1 1/16 inches. Screws not included. Shipping weight, 10 ounces.

84 C 3858.............................40¢



Hasps-Hook-in-Staples

Wrought steel. Shipping weight, each, 8 to 14 ounces. State size.

Length	6 inches	8 inches	10 inches
84 C 3860	3¢	5¢	7¢

Self-Hooking Hasp

Wrought steel. Length, 8 inches. Shipping weight, each, 8 ounces.

84 C 3864—Each....8¢ Per dozen....72¢

Door Hooks and Eyes

Bright steel. Shipping weight, per dozen, 8 to 20 ounces.

Size	2 in.	2½ in.	3 in.
84 C 3890—Per dozen	10¢	15¢	20¢

Size	3½ in.	4 in.
84 C 3890—Per dozen	23¢	25¢

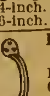
Safety Gate Hooks

Tinned malleable iron hooks.

84 C 3892—4-inch. Each... 8¢
Per dozen....................90¢
84 C 3892—6-inch. Each...........$ .10
Per dozen........................... 1.10

Heavy Hooks

84 C 3884—
4-inch. Per dozen............25¢
6-inch. Per dozen............40¢



Barn Door Pull

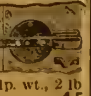
Japanned. Firm hand hold. Length, 6 inches. Width, 1¼ inches. Screws not included. Shipping weight, 2 ounces.

84 C 3940 ..... 5¢

Heavy Door Pull

Japanned. Length, 10¾ inches. Width at ends, 2½ inches. With screws. Shipping weight, 12 ounces.

84 C 3941 37



Sliding Door Latch

May be operated from inside or outside. Extra staple to fasten door when open. Will fit left or right-hand doors. Latch, complete length, 10 inches. Ship. wt., 2 lb

84 C 3875......................45

For general use an Extension Ladder is most practical. Page 528

Traps
And Accessories

Use the Correct Size Traps for the Game You Want

Size 0 —Rat, Gopher, Weasel, Marten, etc.
Size 1 —Muskrat, Skunk, Opossum, Rabbit, Mink, Marten, etc.
Size 1½ —Mink, Skunk, Racoon, Muskrat, Fisher, Opossum, etc.
Size 81 and 91 —Skunk, Mink, Muskrat, etc.
Size 91½ —Fox, Skunk, Mink, Raccoon, Woodchuck, etc.
Size 2 —Fox, Raccoon, Wildcat, Opossum, Fisher, etc.
Size 2½ —Otter, Beaver, etc.
Size 3 —Coyote, Fisher, Fox, Badger, Otter, Lynx, Wildcat.
Size 4 —Lynx, Coyote, Badger, Beaver, Cougar, Otter, Wolf, Wolverine, etc.

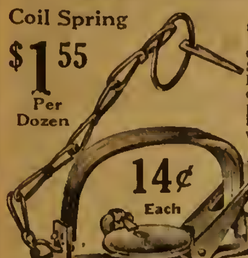
For Bear, Deer, Wolf and Otter, see special Newhouse traps listed.

Traps
And Accessories

Never Break Trap

Coil Spring

$1.55 Per Dozen



14¢ Each

Compact, no long springs to conceal. High hold, pan drops to the bottom. Sure grip, leg pulls into a wedge. Wire coil spring, rust-proof, will not break. Light weight. All steel. For muskrat, etc. Jaw spread, 4 inches; with chains. Ship. weight, per doz., 7½ pounds.

84 C 8157—Each ..... $ .14
Per dozen. 1.55

84 C 8158 — Jaw spread, 4⅞ inches. Shipping weight, 14 pounds.
Each. .... 28¢ Per dozen.... $3.30

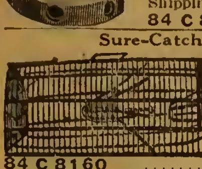
Mouse and Rat Traps

Choker Mouse Trap

Wood body, with four holes. Steel springs. Catches mice by the neck and kills instantly. Shipping weight, 8 ounces.
84 C 8155 .... 10¢

Sure-Catch Rat Trap

Strong wire Rat Trap. One rat in, all the rest follow. Made of coppered steel wire, with sheet steel ribs. Strong and substantial. Safety door. Length, 15 inches. Ship. weight, 3 pounds.
84 C 8160 .... 69¢

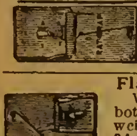


Flat Rat Trap

Strongly made and very effective. Wood bottom, steel spring. Ship. wt., 12 ounces.
84 C 8154........... 8¢

Flat Mouse Trap

Well made and effective. Wood bottom and steel spring. Shipping weight, per dozen, 1 pound.
84 C 8153—2 traps. 5¢ Per doz. 25¢

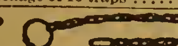


Mouse Traps

13¢ For Ten

So low priced that you may throw trap with mouse away. Very sanitary. Shipping weight, per package of ten, 8 ounces.
84 C 8150—Per package of 10 traps ..... 13¢

Extension Trap Chains



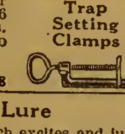
You can instantly double the length of a Trap Chain, so that a trapped animal may be drowned with certainty or a drag given free play. For all sizes of traps. Quickly attached.
84 C 8105 — Size 1. Length, 20 inches. Shipping weight, each 6 ounces. Each....... $ .10
Per dozen. 1.07
84 C 8106 — Size 4. Length, 26½ inches. Shipping weight, each, 10 ounces. Each.. $ .14
Per dozen. 1.42

Triumph Trap Placer

Three tools in one — Scoop, Killer and Placer. Makes out-of-the-way places easy to reach. Suitable for placing traps, as a fire ramrod for holding frying pan over the fire and many other uses. Length, 17 inches. Shipping weight, 1¼ pounds.
84 C 8156 .... 39¢

Jump Trap Setter

For setting all sizes of jump traps. Length. 7 inches. Shipping weight, 9 ounces.
84 C 8045 .... 19¢



Trap Setting Clamps

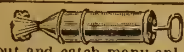
Size 4 is for any trap smaller than No. 4½. Size 5 and 6 clamps are for large bear traps. Shipping weights, 6 ounces to 2 pounds.

Size	4	5	6
84 C 8025	27¢	68¢	$1.08

Animal Lure

A bait compound which excites and lures animals. An effective aid to any trapper. In 2-ounce bottles. Shipping weight, per bottle, 4 ounces.
84 C 8115—Per bottle............ 15¢

Shaw's Pneumatic Smoker



Enables you to smoke out and catch many animals in a day during extreme cold. Smooth black iron, 4 by 18 inches. Directions and smokeout powder included. Shipping weight, 4 pounds.
84 C 8110.......................... $1.65
84 C 8111 — Smokeout Powder only. Shipping weight, per box, 18 ounces. Per box.... 15¢

Victor Traps

Made by the Oneida Community, Limited. Lighter than the Newhouse but carefully made to give good service. Very popular, especially for small game. Strong steel chain with each trap.

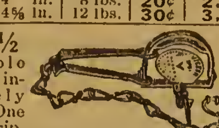
Sizes 0, 1, 1½

A Strong and Substantial Trap for Its Size

Plain jaws. Tight grip. One spring.

Article Number	Size	Spread Jaws	Ship. Wt. Dozen	Price Each	Per Dozen
84 C 8050	0	3½ in.	6 lbs.	17¢	$1.78
84 C 8051	1	4 in.	8 lbs.	20¢	2.13
84 C 8052	1½	4⅝ in.	12 lbs.	30¢	3.20

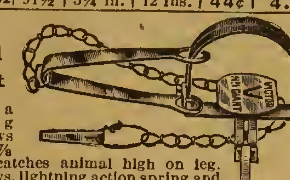
Sizes 91, 91½



Strong double jaws. Will not injure fur. Rarely breaks leg. One spring. Tight grip.

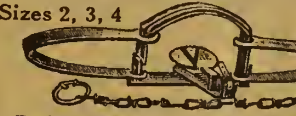
Article Number	Size	Spread Jaws	Ship. Wt. Dozen	Price Each	Per Dozen
84 C 8060	91	4¾ in.	10 lbs.	31¢	$3.20
84 C 8061	91½	5¼ in.	12 lbs.	44¢	4.62

Size No. 1 Giant



Extra strong with jaws spread 4⅞ inches, catches animal high on leg. Plain jaws, lightning action spring and improved swivel at point where chain connects with spring. Has all latest Victor improvements. Shipping weight per dozen, 10 pounds.
84 C 8058—Each... 25¢ Per dozen. $2.63

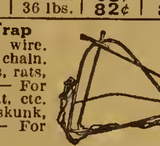
Sizes 2, 3, 4



Double spring, very powerful. Plain jaws.

Article Number	Size	Spread Jaws	Ship. Wt. Dozen	Price Each	Per Dozen
84 C 8053	2	4⅝ in.	15 lbs.	40¢	$4.19
84 C 8055	3	5¼ in.	30 lbs.	68¢	7.10
84 C 8056	4	5⅞ in.	36 lbs.	82¢	8.52

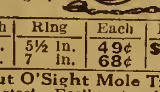
Stop Thief Wire Trap



Made of hard steel wire. Light, yet strong. With chain. **Size 1** — For squirrels, rats, gophers, etc. **Size 2** — For mink, rabbits, muskrat, etc. **Size 3** — For raccoon, skunk, mink, etc. **Size 4** — For skunk, raccoon, etc.

Article Number	Size	Ship. Wt. Each	Price Each	Per Dozen
84 C 8080	1	12 oz.	19¢	$1.99
84 C 8081	2	1 lb.	23¢	2.41
84 C 8082	3	1¼ lbs.	31¢	3.20
84 C 8083	4	1¾ lbs.	42¢	4.40

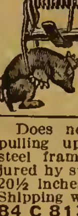
Kill 'em Wire Trap



Heavy steel wire. Easily concealed over holes or in runways. Shipping weight, each, 1¾ pounds.

Art. No.	Size	Length	Ring	Each	Dozen
84 C 8070	1	12 in.	5½ in.	49¢	$5.11
84 C 8072	2	14 in.	7 in.	68¢	7.10

Out O'Sight Mole Trap



All steel. Easily set and a sure catcher. Very compact. May be used in hot beds without interfering with the glass cover. Directions included. Shipping weight, each, 2½ pounds.
84 C 8130—
Each........... $1.25

Little Giant Mole Trap

Does not tear the sod. Set by pulling up plunger rod. Wrought steel frame. Steel prongs, not injured by striking rocks. Height, set, 20½ inches. Width, frame, 4 inches. Shipping weight, each 3½ pounds.
84 C 8132—Each.......... 63¢

Swiss Chime Bell

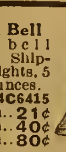
Swiss Chime. Shipping weight, ¾ to 2 pounds.

Diam.	284C6416
3⅛ inch.	$.85
3¾ inch.	1.25
4¾ inch.	2.10

Hand Bell

Fine bell metal. Shipping weights, 5 to 12 ounces.

Diam.	84C6415
2½ inch.	21¢
2¾ inch.	40¢
3¾ inch.	80¢

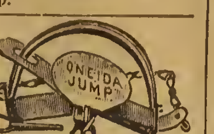


Oneida Jump Traps

Made by the Oneida Community, Limited. Light, easy to carry, easy to hide, lie flat. Jaws have wide faces, not likely to break leg. Strong steel chain with each trap.

Sizes 0, 1, 1½

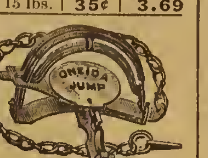
A popular trap for Weasels, Marten, etc. Plain jaws. One spring. Light, but strong.



Article Number	Size	Spread Jaws	Ship. Wt. Dozen	Price Each	Per Dozen
84 C 8030	0	4 in.	12 lbs.	21¢	$2.20
84 C 8031	1	4¾ in.	12 lbs.	25¢	2.56
84 C 8032	1½	5¼ in.	15 lbs.	35¢	3.69

Sizes 91, 91½

With wide double jaws. Takes a firm grip high on leg so animal can not gnaw loose. One spring. Light, but strong.



Article Number	Size	Spread Jaws	Ship. Wt. Dozen	Price Each	Per Dozen
84 C 8038	91	4¾ in.	10 lbs.	34¢	$3.55
84 C 8039	91½	5 in.	12 lbs.	48¢	4.97

Sizes 2, 3, 4

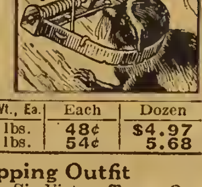
A very substantial trap for hunting Fox, Coyotes Badger, etc. Plain wide face jaws. One spring. Light, but strong.

Article Number	Size	Spread Jaws	Ship. Wt. Dozen	Price Each	Per Dozen
84 C 8034	2	5½ in.	18 lbs.	54¢	$5.68
84 C 8035	3	6½ in.	24 lbs.	74¢	7.67
84 C 8036	4	7¼ in.	36 lbs.	86¢	8.95

Tree Traps

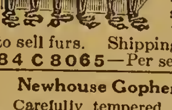
Easy to Find

Very popular. May be nailed to tree or stump above the snow. Never lost. Strong springs. **Size 1** for mink, marten, etc. **Size 2** for skunk, coon, etc.



Art. No.	Size	Ship. Wt., Ea.	Each	Dozen
84 C 8090	1	1½ lbs.	48¢	$4.97
84 C 8091	2	2 lbs.	54¢	5.68

Boys' Trapping Outfit



Six Victory Traps: One No. 0; four No. 1 and one No. 1½. In neat wood balance. Instruction book included, tells how to bait, skin and stretch, also where to trap and where to sell furs. Shipping weight, per set, 5½ lbs.
84 C 8065—Per set................ $1.56

Newhouse Gopher Trap

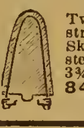
Carefully tempered spring makes the trap fast and powerful. Length, 5½ inches. Ring, 3 inches. Shipping weight, each, 8 ounces.
84 C 8138—Each.................. $ .20
Per dozen.......................... 2.13

Western Gopher Trap

Usually placed in the burrow. Wood box with steel springs and loop. Size, 6¼ by 3¾ by 3 inches. Shipping weight, each, 1 pound.
84 C 8136—Each.... $ .20
Per dozen 2.13

Newhouse Fur Stretcher

16¢



Slips into fur and stretches it sideways. Two prongs hook into bottom of fur and stretch it lengthwise. Fits Muskrat, Skunk, Opossum, etc. Made of 5/32-inch steel spring wire. Total length, 20 inches, 3¾-inch prongs. Ship. wt., per dozen, 4 lbs.
84 C 8100—Each........... $ .16
Per Dozen...... 1.70

Polished Bell

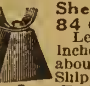
Cast metal. Harness or sheep bells.

Diam.	Ship. Wt.	84 C 6412
2¼ in.	5 oz.	20¢
3 in.	8 oz.	32¢

Turkey Bells

Diameter, about 1¾ inches. Complete with strap. Shipping weight, each, 8 ounces.
84 C 6410—Each. $ .15
Per dozen 1.65

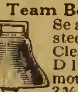
Sheep Bells



84 C 6405
Length, 1½ inches. Mouth about 1⅛x1¼. Ship. weight, each, 7 oz. Each. $ .35
Per dozen......... 3.85

84 C 6406—Length, 1¾ in. Mouth, about 1½x1 15/16 in. Ship. wt., each 10 oz.
Each............ $ .40
Per dozen......... 4.50

Team Bells



Seamless steel bells. Clear ring. Diameter mouth about 3⅜ inches. Ship. wt., each, 8 oz. (Straps not included.)
84 C 6408—Each. $ .13
Per dozen. 1.45

Bell straps carried in our Harness Division. See Index.

Cow Bell

Copper plated steel bell, strong and substantially made. Without straps. Shipping weights, ¼ to 2½ pounds.
84 C 6400—State size.

Size	Mouth About In.	Height In.	Price Each	Per Dozen
0	5½x3	7½	78¢	$8.65
2	4 x3	5½	55¢	5.85
3	3¾x2¾	5	30¢	3.45
7	2½x1¾	2½	25¢	2.65

Swiss Pattern Cow Bell

Made from pure bell metal; gives a musical, sweet tone. Sizes are approximate. Straps not included. Shipping weights, 1 to 4 pounds.

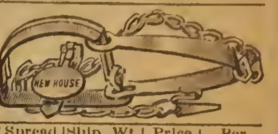
Diameter, inches	4	5	6
84 C 6402	75¢	$1.40	$2.30

Newhouse Traps

Made by the Oneida Community, Limited. Made of best materials. Well proportioned. Very strong. Thoroughly tested springs of the best crucible spring steel. Strong chain. Always the experienced trapper's choice.

Sizes 0, 1, 1½

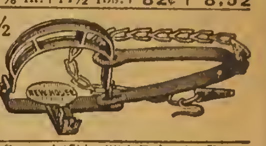
Plain jaws. One spring. Very strong.



Article Number	Size	Spread Jaws	Ship. Wt. Dozen	Price Each	Per Dozen
84 C 8000	0	3½ in.	8¼ lbs.	46¢	$4.83
84 C 8001	1	4 in.	10¼ lbs.	54¢	5.68
84 C 8002	1½	4⅝ in.	14½ lbs.	82¢	8.52

Sizes 81, 91, 91½

Wide double jaws rarely break bones. Grip so high animal cannot gnaw out. One spring.



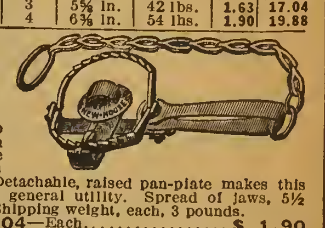
Article Number	Size	Spread Jaws	Ship. Wt. Dozen	Price Each	Per Dozen
84 C 8020	81	4 in.	15 lbs.	65¢	$6.75
84 C 8021	91	5⅛ in.	18 lbs.	68¢	7.10
84 C 8022	91½	6¼ in.	24 lbs.	95¢	9.94

Sizes 2, 3, 4

Very powerful. Double springs. Sizes 2 and 4, especially intended for fox and beaver.

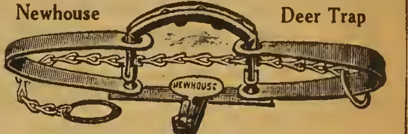
Article Number	Size	Spread Jaws	Ship. Wt. Dozen	Price Each	Per Dozen
84 C 8003	2	4⅝ in.	15 lbs.	$1.22	$12.78
84 C 8005	3	5⅝ in.	42 lbs.	1.63	17.04
84 C 8006	4	6⅜ in.	54 lbs.	1.90	19.88

Newhouse Otter Trap



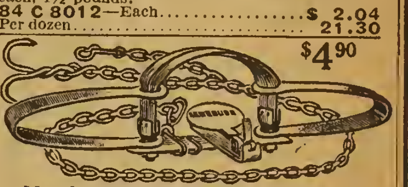
Sharp teeth pierce the animal's breast. Detachable, raised pan-plate makes this a trap of general utility. Spread of jaws, 5½ inches. Shipping weight, each, 3 pounds.
84 C 8004—Each................. $ 1.90
Per dozen.......................... 19.88

Newhouse Deer Trap



Jaws have an offset to prevent breaking the deer's leg. Teeth in jaws sufficiently close together to prevent the animal from drawing its hoofs out. Spread of jaws, 6⅜ inches. Shipping weight, each, 4½ pounds.
84 C 8012—Each.................. $ 2.04
Per dozen............................ 21.30

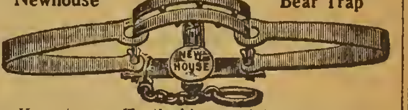
$4.90



Newhouse Wolf Trap—Size 4½

Extra heavy 5-foot steel chain with swivel, heavy snap and drag. Spread of jaws, 8¾ inches. Will hold 2,000 pounds. Shipping weight, each, 9 pounds.
84 C 8007—Each.................. $4.90

Newhouse Bear Trap



Very strong. Toothed jaws. Extra strong chain and swivel. Size 15 has ¾-inch offset jaws, allowing springs to come high and hold more securely. The strongest trap made.

Article Number	Size	Spread Jaws	Ship. Wt. Each	Price Each
84 C 8008	5	11¾ in.	22 lbs.	$15.10
84 C 8013	15	11¾ in.	23 lbs.	15.10
84 C 8010	6	16 in.	45 lbs.	32.65

Lakeside Church, School, Factory Bells

$9.75 For 20-inch size

Lakeside Church Bells are made of a special composition metal, producing a clear, rich, mellow sound. The larger the bell, the deeper and richer the tone, which improves as the bell ages. Large, clear-sounding bells for less money than smaller brass bells would cost.

Lakeside Church Bells produce a clear, deep, mellow tone that can be heard a great distance. Are complete with tolling hammer.

Lakeside School and Factory Bells are of the same quality as our Church Bells but do not have a tolling hammer and are designed for schools, court-houses and small churches:

Note: We will replace free any Lakeside Bell which may break within five years.
Prices are for bells complete with wood sills and iron wheels. Sizes over 36 inches have wood wheels. Fitted with smooth, easy running bearings.

284 C 4645—School or Factory Bells. Complete with Clapper, but without Tolling Hammer.

Diam. Bell	Approx. Ship. Wt.	Each
20 inches	160 pounds	$ 9.75
22 inches	200 pounds	13.50
24 inches	250 pounds	15.65
26 inches	350 pounds	24.50
28 inches	425 pounds	30.65

284 C 4648—Church Bells complete with Tolling Hammer and Clapper.

Diam. Bell	Approx. Ship. Wt.	Each
30 inches	560 pounds	$ 44.50
32 inches	600 pounds	49.25
34 inches	750 pounds	59.10
36 inches	850 pounds	72.15
38 inches	1000 pounds.	82.50
40 inches	1200 pounds	90.10
44 inches	1550 pounds	128.50
48 inches	1950 pounds	164.45

Shipped from Factory in Ohio

Farm Bells

$3.10

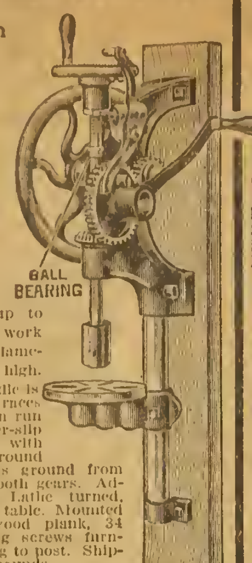
Full Size and Weight
Loud Clear Tones

Made of a special alloy metal, with a loud, clear tone that will not become harsh and can be heard for a long distance. Nicely finished in gold bronze. The frame is of heavy cast iron, neatly painted. Shipping weights, 38 to 105 pounds.
Our Bells are full size and full weight.

Article Number	Mfr. Size	Diam. Inches	Ship. Wt. Bell Only	Price Each
184 C 4661	1	14½	24 pounds	$3.10
184 C 4662	2	16	34 pounds	3.60
184 C 4663	3	18	47 pounds	4.85
184 C 4664	4	19¾	78 pounds	6.85

Rifles and Shot Guns are listed on Pages 548 to 550

Champion Self-Feed Post Drill



$5.65

Drills holes up to ¾ inch. Takes work up to 12 inches diameter and 8 inches high. Ball bearing spindle is hardened steel traces with up and down run of 3 inches. Never-slip chuck holds drill with regular ½-inch round shanks. Bearings ground from solid metal. Smooth gears. Adjustable crank. Lathe turned, slotted adjustable table. Mounted on heavy hardwood plank, 34 inches high. Lag screws furnished for fastening to post. Shipping weight, 65 pounds.

184 C 6628 .... **$5.65**

Sets of Drills for Post Drills

84 C 1058—Set of 4 Cleveland drills, ¼, 5/16, ⅜, ½ inch. Shipping weight, 12 ounces. Per set **$1.10**

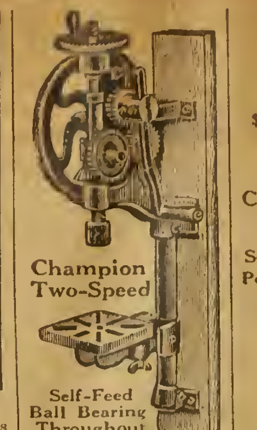
84 C 1059—Set of 8 Cleveland drills, ⅛, 3/16, ¼, 5/16, ⅜, ½, ⅝, ¾ inch. Shipping weight, 1½ pounds. Per set **$2.45**

Champion No. 90 Self-Feed Post-Drill

Adjustable. Takes work 14½ inches in diameter and 10 inches high. Drills holes up to 1 inch. Never-slip Chuck, and easy running ball bearing spindle which save 20 to 50% in power. Diameter of spindle, 1⅛ inches with a run of 3½ inches. Bearings accurately ground from solid metal. No babbitt used. Adjustable crank. Planed, slotted adjustable table. Mounted on heavy plank. Height, 43 inches. With lag screws for fastening to post. Shipping weight, 105 pounds.

184 C 6626 .... **$10.95**

Champion Two-Speed Self-Feed Ball Bearing Throughout

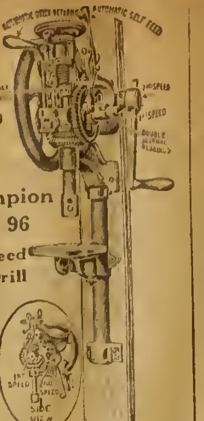


Takes work up to 15 inches in diameter and 10 inches high. Drills holes up to 1¼ inches. ½-inch never-slip chuck. Easy running ball bearing. Spindle diameter, 1⅛ inches; run, 3½ inches. Bearings ground from solid metal. Adjustable slotted table. Mounted on heavy plank. With lag screws for fastening. Shipping weight, 110 pounds.

184 C 6620 .... **$13.75**

Champion No. 96 Self-Feed Post Drill

$19.50



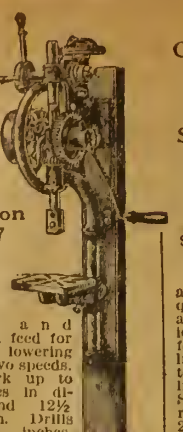
Automatic quick return attachment draws bit out of work quickly. Speed ratios, 1.53 to 1 and 3.5 to 1.

Takes work, 15½ inches in diameter and 9¾ inches high. Drills holes up to 1½ inches. Has ½-inch never-slip chuck. Has easy-running, ball bearing spindle, diameter 1⅛ inches; run, 3 inches. Bearings ground from solid metal. Smooth gears. Adjustable crank and slotted table. Mounted on heavy plank. Total height, 46 inches. With lag screws for fastening to post. Shipping weight, 135 pounds.

184 C 6634 .... **$19.50**

Champion No. 97 Self-Feed Quick Return Post Drill

$21.50



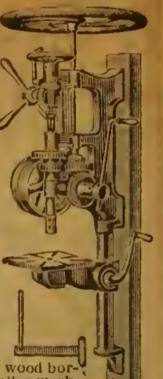
Self-feed and wheel hand feed for raising or lowering drill bit. Two speeds. Takes work up to 16½ inches in diameter and 12½ inches high. Drills holes 1¼ inches. Has ½-inch never-slip chuck with ball thrust bearing. Diameter of spindle, 1⅛ inches; with a run of 5½ inches. Smooth gears. Adjustable slotted table. Mounted on heavy plank, height, 50 inches.

184 C 6638 — Tight and loose pulleys for power. Size, 6 by 2-inch face. Speed, 250 revolutions per minute. With lag screws for fastening to post. Shipping weight, 180 pounds. **$24.00**

184 C 6639—For hand use with adjustable crank. No pulleys. Lag screws for fastening to post are included. Shipping weight, 175 pounds. **$21.50**

Champion No. 7 Two-Speed Self-Feed Post Drill

$35.00

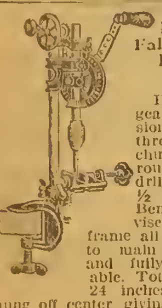


Adjustable, quick acting lever feed for reaming, countersinking, wood boring and similar work. Serves also as quick return for drill. Speed ratios, 2.4 to 1 and 8 to 1. Takes work up to 21 inches in diameter and 19 inches high. Has ⅝-inch chuck. Ball thrust bearing. Diameter spindle, 1½ inches; run, 5½ inches. Drills holes up to 1½ inches. Solid ground bearings. Machine cut gears. Total height, 65 inches.

184 C 6644—With tight and loose pulleys for power. Size, 11 by 2½-inch face. Speed, 80 revolutions per minute. Crank and lag screws for fastening to post are included. Shipping weight, 455 pounds **$44.00**

184 C 6645—With adjustable crank; no pulleys. Lag screws included. Shipping weight, 430 pounds .. **$35.00**

Miller Falls Drill Press



Double gears, extension handle, three-jawed chuck, taking round shank drills up to ½ inch. Bench clamp vise rest and frame all clamped to main standard and fully adjustable. Total height, 24 inches. Vise hung off center giving variety of positions. With hand clamp for fastening to bench. Shipping weight, 28 pounds.

484 C 6674 .... **$10.80**

Bench Drill

Solid iron frame, cut gears, steel feed screw. Adjustable table. Total height, 18 inches; table to feed wheel, 13 inches. Three-jawed chuck, capacity 0 to ¼ inch. Eight assorted fluted drills.

With hand clamp for fastening to bench. Shipping weight, 13 pounds.

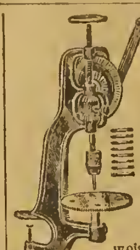
484 C 6664 .... **$5.80**

Bench Drill Vise

Drill vise. Used in place of table. Jaws open 1 3/16 inches. Shipping weight, 2 pounds.

84 C 6665 .... **$1.65**

Goodell Pratt Bench Drill



Iron frame, cut gears. Two easily shifted speeds. Steel feed screw. Adjustable table. 18 inches high. Eight fluted drill bits. Three-jawed chuck, capacity 0 to ⅜ in. With hand clamp for fastening to bench. Shipping weight, 19 pounds.

484 C 6662 .... **$8.75**

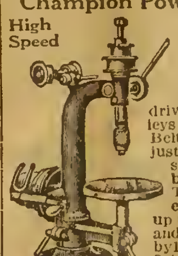
Bench Drill Vise

Drill Vise. Used in place of table. Jaws open 2 inches. Shipping weight, 4½ pounds.

84 C 6663 ... **$2.35**

Champion Power Bench Drill

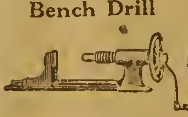
High Speed



Sensitive drill for light and rapid drilling. Belt driven. Cone pulleys for two speeds. Belt shifter. Adjustable spindle stop. End thrust ball bearing. Three-jawed chuck holds drills up to ½ in. Tight and loose pulley, 4 by 1½ inches. Table 8 inches diameter. Speed of drive pulley, 550 revolutions per minute. Height, 27½ inches. With lag screws for fastening to bench. Shipping weight, 75 pounds.

184 C 6675 .... **$22.50**

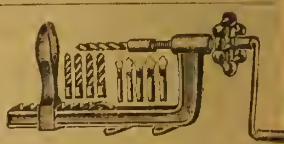
Blacksmiths' Bench Drill



Strong and substantial. For farm and light shop use. Heavy iron frame, with steel spindle and chuck for square shank bit stock drills. Length, 26 inches; height, 7¾ inches. With lag screws for fastening to post. Shipping weight, 22 pounds.

484 C 6650 . **$2.40**

Combination Clamp and Drill

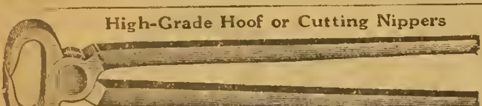


Malleable frame and sliding clamp, steel screw feed with brass chuck. Length, 17 inches; height, 7 inches. Furnished with lag screws for fastening. Shipping weight, 8 pounds.

84 C 6652—With 5 diamond pointed steel drills for metal, 3/16, ¼, 5/16, ⅜, ½ inch **$1.98**

84 C 6653—With 5 steel twist drills for metal or wood. 3/16, ¼, 5/16, ⅜, ½ inch **$2.75**

High-Grade Hoof or Cutting Nippers



Made of fine quality of forged steel, well finished. Jaws highly tempered and intended for cutting only. Should not be used for prying or twisting. State size. Shipping weights, 1¾ to 3 pounds.

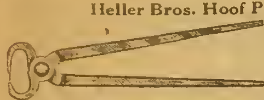
Length	10 in.	12 in.	14 in.
84 C 7008	**$1.25**	**$1.65**	**$1.75**

Blacksmiths' Pincers

A substantial tool for hard use. Forged steel, polished jaws. Full weight and correct shape. Excellent for mechanic or blacksmith. State size wanted. Shipping weights, 2 and 2½ pounds.

84 C 6995—12 inches long .... **59¢**
14 inches long .... **70¢**

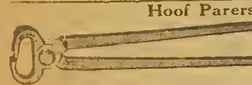
Heller Bros. Hoof Parers



Made of finest grade crucible tool steel. Full polished. Shipping weights, 2¼ and 3 pounds.

84 C 7002—12-inches long **$1.85**
14-inches long **2.25**

Hoof Parers



Made of fine forged steel. Polished jaws, extra quality. State size. Shipping weights, 2¼ and 2¾ pounds.

84 C 7000—12 inches long **$1.30**
14 inches long **1.45**

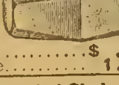
Easy Hoof Trimmer

Best grade forged steel. Has a detachable knife, easily adjusted. Length, 12 inches; opens 1¾ inches; cuts 1 inch. Shipping weight, 3 pounds.

84 C 7015 .... **$1.60**

84 C 7016—Extra knife for above. Shipping weight, each, 2 ounces .... **30¢**

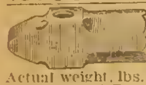
Horseshoe Turning Sledges



Western pattern. Solid steel, oil finish, with tempered ground and polished faces. Shipping weights, 9 and 11 pounds.

484 C 6973—8-pound size .... **$ .88**
484 C 6974—10-pound size **1.10**

Blacksmiths' Sledges



Solid forged steel without handles. Shipping weights, 9 to 17 pounds.

Actual weight, lbs.	8	10	12	14	16
484 C 6975	75¢	95¢	$1.12	$1.33	$1.50

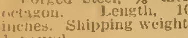
484 C 6976—**Hickory sledge handles.** Length, 36 inches. Turned smooth. Shipping weight, 2 pounds .... **22¢**

Cotter Pin Extractor

Strong and practical. Forged steel, oil finish. A very useful tool. Length 7 inches. Shipping weight 4 oz.

84 C 7082 .... **9¢**

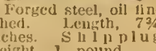
Horseshoers' Pritchel



Forged steel, ⅝ inch octagon. Length, 10 inches. Shipping weight, 1 pound.

84 C 7022 .... **45¢**

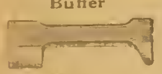
Horseshoers' Toe Knife



Forged steel, oil finished. Length, 7¾ inches. Shipping weight, 1 pound.

84 C 7020 .... **60¢**

Horseshoers' Buffer



Forged steel, oil finish. Shipping weight, 12 ounces.

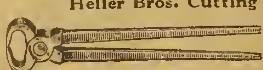
84 C 7024 .... **57¢**

Farriers' Knife

84 C7030—Wostenholm steel blade. Bone handle. Shipping weight, 6 ounces .... **65¢**

84 C 7031—Heller Bros. with bone handle. Shipping weight, 4 ounces .... **50¢**

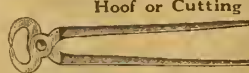
Heller Bros. Cutting Nippers



Made of finest grade crucible tool steel. Nicely finished. Shipping weights, 2 and 2½ pounds.

84 C 7012—12 inches long **$1.85**
14 inches long **2.35**

Hoof or Cutting Nippers



Made from heavy forged steel. A very tight gripping nipper. Length, 14 inches. Ship. weight, 2½ pounds.

84 C 7010 .... **82¢**

Blacksmiths' Leather Aprons

Made of best quality leather. Shipping weights, 2 to 3 pounds.

84 C 7090—Split leather apron. Size, 25 by 34 inches **$2.55**

84 C 7091 — Muleskin apron. Size, 25 by 34 inches .. **$2.85**

84 C 7092—Split leather apron. Size, 27¼ by 38 inches .. **$2.95**

84 C 7093—Muleskin apron. Size, 28 by 38 inches **$3.60**

Horseshoers' Fitting Hammer

Heller Bros.' Forged steel. Polished head with hickory handle. Weight of head, 2⅛ pounds; with handle, 2½ pounds. Shipping weight, 3 pounds.

84 C 7055 .... **$2.50**

Horseshoers' Sharpening Hammers

84 C 7056—Heller Bros. Head, 1⅝ pounds. Shipping weight, with handle, 3 pounds **$2.60**

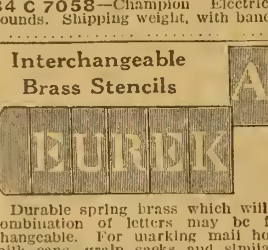
84 C 7056—Heller Bros. Head, 1⅛ pounds. Shipping weight, with handle, 3 pounds **$2.65**

84 C 7058—Champion Electric. Head 2⅛ pounds. Shipping weight, with handle, 3½ pounds **$2.40**

84 C 7058—Champion Electric. Head, 2⅝ pounds. Shipping weight, with handle, 3½ pounds. **$2.45**

Interchangeable Brass Stencils

For Marking Boxes, Bags, Crates and Trunks



Durable spring brass which will not curl. Any combination of letters may be formed. Easily changeable. For marking mail boxes, egg cases, milk cans, grain sacks and similar carriers. Ink and brush for stenciling listed below.

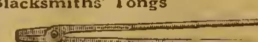
84 C 2728—Set of 55 pieces, letters only. **State size wanted.** Shipping weight, per set, 5 to 10 ounces.

Size letter	½ in.	1 in.	1½ in.
Per set	85¢	$1.00	$1.32

84 C 2729—Set of 70 pieces, letters and figures. **State size wanted.** Shipping weight, per set, 6 to 12 ounces.

Size, letter	½ in.	¾ in.	1 in.	1½ in.
Per set	$1.10	$1.18	$1.25	$1.68

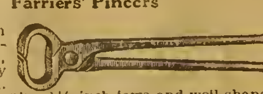
Blacksmiths' Tongs



Straight lip. Forged steel; jaws and handle are one piece, not welded. Lengths are approximate. State size wanted. Shipping weights, 3 and 3½ pounds.

84 C 6980—20 inches long .... **50¢**
22 inches long .... **55¢**

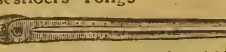
Farriers' Pincers



Forged from high grade crucible steel, properly tempered. Have tight gripping 1⅛-inch jaws and well shaped handles. Length, 14 inches. Shipping weight, 3¼ pounds

84 C 6998 .... **90¢**

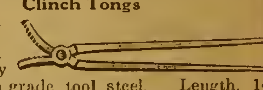
Horseshoers' Tongs



Made from drop forged solid steel. Grips metal firmly. Shipping weights, 2 and 2¼ pounds.

84 C 6985—12 inches long .... **45¢**
14 inches long .... **50¢**

Clinch Tongs



Clinch tongs with grooved jaws. Strongly made of high grade tool steel. Length, 14 inches. Shipping weight, 2 pounds.

84 C 6990 .... **$1.65**

Blacksmiths' Gad Tongs

Solid forged steel. Lengths and weights are approximate. Shipping weights, 2½ and 3½ pounds.

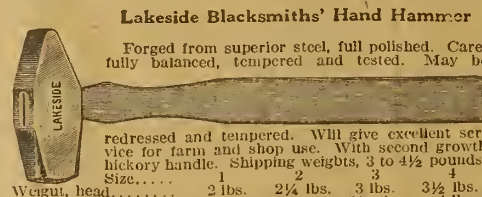
84 C 6982—18 inches long .... **55¢**
22 inches long .... **70¢**

Blacksmiths' Bolt Tongs

Forged steel, Grooved jaws. No welds to become loose. Shipping weights, 2½ to 4½ lbs.

For bolts, inches	¼	5/16	⅜	½
Length, inches	17⅞	18	19¾	20
84 C 6984	49¢	52¢	54¢	58¢
For bolts, inches	⅝	¾	⅞	1
Length, inches	21½	22	24	24
84 C 6984	64¢	70¢	75¢	79¢

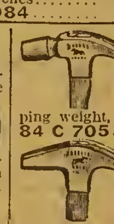
Lakeside Blacksmiths' Hand Hammer



Forged from superior steel, full polished. Carefully balanced, tempered and tested. May be redressed and tempered. Will give excellent service for farm and shop use. With second growth hickory handle. Shipping weights, 3 to 4½ pounds.

Size	1	2	3	4
Weight, head	2 lbs.	2¼ lbs.	3 lbs.	3½ lbs.
Total weight	2¼ lbs.	3 lbs.	3½ lbs.	4 lbs.
84 C 7050	75¢	85¢	95¢	$1.08

Driving Hammers



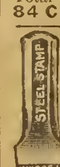
Heller Bros. No. 65. Forged steel polished head, with hickory handle. Weight of head, 12 ounces. Shipping weight, 1 pound.

84 C 7053 .... **$1.48**

Heller Bros. No. 64. Forged steel, polished head with hickory handle. Shipping weight, 1 pound.

84 C 7052—8-ounce head **$1.35**
10 ounce head **1.40**

Hand Made Steel Stamps

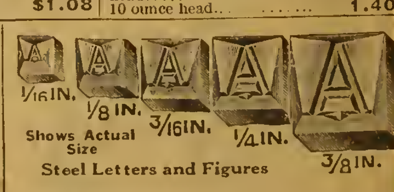


Hand made of high grade tool steel. Designed for stamping names, numbers or initials on metals, wood or leather. Prices are for one-line stamps with any letter or figure desired. Steel stamps are made to order and are mailed direct from factory, postage paid. **State size.**

284 C 2724

No. of Letters	Size of Letter 1/16 in.	⅛ in.	3/16 in.	¼ in.
2 or 3	$ .48	$ .52	$ .57	$ .67
4 or 5	.80	.88	.96	1.12
6 or 7	1.12	1.23	1.34	1.58
8 or 9	1.44	1.59	1.72	2.02
10 or 11	1.76	1.94	2.11	2.44
12 or 15	2.40	2.64	2.88	3.36

Steel Letters and Figures



Machine forged from best tool steel, tempered. Used for stamping metals, wood or leather. Set of letters includes 26 letters, a period and an &. Set of figures is 9 pieces using the 6 inverted for a 9.

Size	Single Letters 84 C-2720 Each	Set of Letters 84 C 2722 Ship. Wt.	Price	Single Figs. 84 C 2721 Each	Set of 9 Figures 84 C 2723 Ship. Wt.	Price
1/16	7¢	8 oz.	$1.80	7¢	4 oz.	$ .60
⅛	8¢	10 oz.	2.00	8¢	4 oz.	.70
3/16	9¢	1 lb.	2.25	9¢	6 oz.	.80
¼	11¢	1½ lb.	2.80	11¢	10 oz.	.90
⅜	15¢	3 lb.	3.75	15¢	1 lb.	1.30

Stencil Brushes

Large brush of hair bristles. Wood handle. A practical, serviceable brush. Use it on any stencil. Diameter, ⅞ inch. Shipping weight, 2 ounces.

84 C 2732 .... **25¢**

Stencil Ink

Jet black ink made especially for stenciling. After drying, the black will not run or fade. Complete with large sponge and ink can. Shipping weight, 1 pound.

84 C 2730 .... **38¢**

Low-priced Curry Combs are shown on Page 657

Columbian Sledge Tested Vises

Genuine Columbian No. 143 Vise for garage and shop use. Steel faced jaws.

$2.98

Vise may be clamped at any convenient angle, stationary or to swivel. Has special hardened table to form anvil back of jaws. Made of malleable iron, this anvil will not chip. The sliding bar is wrought steel. A beautifully finished tool. With 3¼-inch jaws. Will open 4½ inches. Shipping weight, 14 pounds.
484 C 6815 ....$2.98

Blacksmiths' Solid Box Vises

Special 5-inch Jaw $3.98

Special 5-inch Jaw $3.98

A fine Vise at less than the price of the 4½-inch jaw size in the heavy pattern. Heavy enough to stand severe usage. Superior quality. Care has been taken to proportion this vise right. Workmanship is of the best. Made of wrought steel, with specially hardened and tempered steel jaws. This vise has a strong steel screw with deep and accurately cut threads encased in a solid thread box. This Vise is provided with loose collars which prevent binding. This is the best vise of its kind for garage and shop use, and we absolutely guarantee this Vise. Lag screws are included for fastening to the bench. Shipping weight, 40 pounds.
484 C 6869.............................$3.98

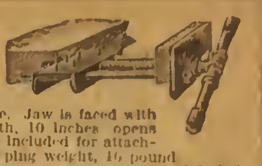
Heavy Pattern

This Vise is the same as the special vise shown at left. It has the same strong steel screw and deep accurate threads. Fitted with loose collars to prevent binding, and steel faced jaws. Lag screws included for fastening to bench.

3½-inch Jaw $3.75

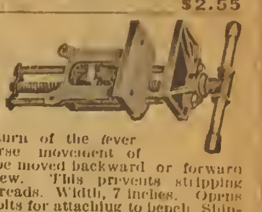
Number	Width of Jaw	Shipping Weight	Price Each
484 C 6870	3½ in.	35 lbs.	$3.75
484 C 6872	4½ in.	50 lbs.	4.25
184 C 6873	5 in.	70 lbs.	5.98
184 C 6874	6 in.	100 lbs.	8.48

Woodworkers' Vise



Made of steel. Jaw moves one inch for every two turns of hardwood handle. Jaw is faced with hard maple. Width, 10 inches opens 10 inches. Screws included for attaching to bench. Shipping weight, 16 pound
484 C 6830 $2.55

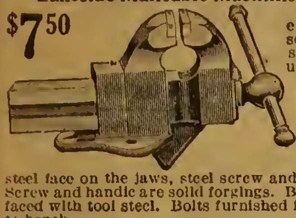
Rapid Acting Woodworkers' Vise



Made of steel and iron. Instantly adjusted and locked or released by a short turn of the lever By a slight reverse movement of handle. Vise may be moved backward or forward without using screw. This prevents stripping or cutting of threads. Width, 7 inches. Opens 8¾ inches. With bolts for attaching to bench Shipping weight, 27 pounds.
484 C 6832 ..... $5.95

Lakeside Malleable Machinists' Vise

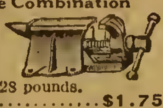
$7.50



Will give excellent service under severe usage. Made of high-grade malleable iron throughout, except the steel face on the jaws, steel screw and the handle. Screw and handle are solid forgings. Both jaws are faced with tool steel. Bolts furnished for fastening to bench.

Article Number	Width Jaws	Jaws Open	Ship. Weight	Each
484 C 6810	3½ in.	5 in.	26 lbs.	$7.50
484 C 6811	4 in.	6 in.	33 lbs.	8.50

Handy Anvil and Vise Combination



Anvil is cast iron. Has chilled face and horn. Vise has 3-inch chilled jaws and pipe jaws. Opens 3½ inches. Length closed, 16 inches. Shipping weight, 28 pounds.
484 C 6860.......................$1.75

Combination Anvil, Vise and Drill

A strong tool. Well made and easily operated. Drawbar is steel T rail. Vise jaws are faced with steel. Face of anvil is casehardened and polished. Steel hardie included. Length closed, 21½ inches. Total height, 8½ inches. Jaws, 3½ inches; open, 6 inches. Chuck takes square shanks. Lag screws furnished for fastening to bench. Bits not included. Shipping weight, 44 pounds.
484 C 6864.......................$3.50

Combination Anvil and Vise

$3.95

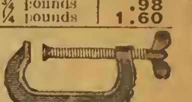
Special value, at our low price. A well built, exceptionally strong Vise and Anvil. Will stand hard service in shop or garage. Chilled face, cast iron anvil, 3½ inches wide and 8½ inches long. The jaws of the vise are 3⅜ inches wide, opening 5 inches, and are faced with tempered knurled steel. Length over all, 13 inches. Bolts included for fastening to bench. Shipping weight, 50 pounds.
184 C 6861............................$3.95

Steel Bench Screws

Steel Screw, cut threads, with wood handle.
84 C 6898

Diameter Inches	Length	Shipping Weight Pounds	Each
1	16 inches	4⅝ pounds	$ .70
1⅛	16 inches	5 pounds	.85
1¼	17 inches	6¾ pounds	.98
1½	18 inches	10¼ pounds	1.60

Malleable Iron Clamps



Heavy malleable iron frame with clean cut threads, swivel head.

Opens, Inches...	4	5	6	8	10
Ship. wt., pounds	1½	2¼	2¾	4	5¼
84 C 6900...	35¢	45c	58¢	90¢	$1.15

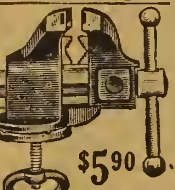
Machinists' Vise

$4.98

Full size, strong and substantial. Made of heavy iron. Tempered steel jaws, nicely polished. Strong steel screw with cut threads. Bolts for fastening to bench.

Article Number	Width Jaws	Jaws Open	Ship. Weight	Price Each
484 C 6800	3½ in.	4 in.	24 lbs.	$4.98
484 C 6801	4 in.	5½ in.	30 lbs.	5.85
484 C 6802	4½ in.	6 in.	44 lbs.	7.95
184 C 6803	5 in.	7 in.	55 lbs.	10.80

Combination Pipe Vise



Made with a swivel base, may be turned and fastened at any convenient angle. Milled and tempered steel jaws for holding pipe. Front pipe jaw is reversible and when worn may be reversed, which gives vise a new jaw.

$5.90

484 C 6890 — Width of jaws, 3 inches. Takes ⅛ to 1½-inch pipe. Shipping weight, 20 pounds..............$5.90
484 C 6891—Width of jaws, 3½ inches. Take ⅛ to 2-inch pipe. Shipping weight, 30 pounds. $9.25
484 C 6892—Width of jaws, 4 inches. Takes ¼ to 3-inch pipe. Shipping weight, 40 pounds. $11.75

Bench Vise

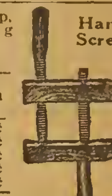
Made with cast iron frame, painted black. Hardened steel faced jaws. A good vise for light or medium work. With bolts for fastening to bench.

$1.95

Article Number	Width Jaws	Shipping Weight	Each
84 C 6820	2½ inches	9 pounds	$1.95
484 C 6821	3 inches	15 pounds	2.50
484 C 6822	4 inches	32 pounds	4.50

Hand Screws

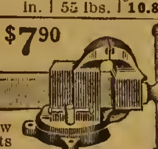
Made of selected wood, deep, accurate threads. Shipping weights, 1¾ to 2½ pounds.



84 C 6914

Diam. Screws Inches	Length Screws Inches	Size of Jaw Inches	Each
⅝	10	1⅜x1⅜	49¢
¾	12	1⅝x1⅝	55¢
¾	14	1¾x1¾	64¢
⅞	16	1⅞x1⅞	72¢
⅞	16	2 x2	80¢

Swivel Bottom Vise $7.90



Made with a swivel bottom so the Vise may be turned to convenient angles. Tempered steel jaws, nicely polished. Strong steel screw with cut threads. With bolts for fastening to bench.

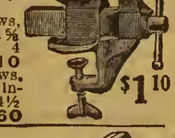
Article Number	Width Jaws	Jaws Open	Ship. Weight	Each
484 C 6805	3½ in.	4 in.	30 lbs.	$7.90
484 C 6806	4 in.	5½ in.	38 lbs.	9.50
184 C 6807	4½ in.	6 in.	54 lbs.	10.95
184 C 6808	5 in.	7 in.	66 lbs.	15.25

Cabinet Clamp

95¢

Fits wood bar, 1⅜ by 2½ inches. Heavy steel screw, sliding head, 1¾ inches square. Adjustable. Bar not included. Shipping weight, 4¼ pounds
84 C 6905.................... 95¢

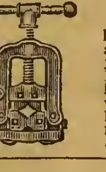
Stanley Bench Vise



Stanley vise. Extra quality. Finely fitted and finished.
84 C 6846—Width of jaws, 1½ inches. Will open 1⅝ inches. Shipping weight, 4 pounds..............$1.10
84 C 6847—Width of jaws, 2 inches. Will open 2⅛ inches. Shipping weight, 4½ pounds..............$1.60

$1.10

Malleable Pipe Vise



Strong, light weight Vise for holding pipe and rods. Frame and base are malleable iron. Hardened steel jaws. Hinged joint on one side. Iron latch opens vise to remove or insert pipe and holds frame rigid when closed. Holds pipe up to 2-inch size. With lag screws for fastening to bench. Ship. wt., 7 lbs.
484 C 6880..........$1.90

Hargraves Perfection Clamp

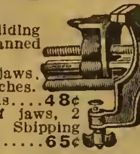
Powerful, rapid acting. With steel bar, 1½ by ¼ inches; small iron parts, wrought screw.

Size	Ship. Wt.	484 C 6910
3 feet	8 pounds	$2.25
4 feet	9 pounds	2.60

Hand Vise

Substantially made of iron. Holds taps, drills, and wire. Width of jaws, 1¼ inches. Will open ½ inch. Shipping weight, 16 ounces.
84 C 6850....49¢

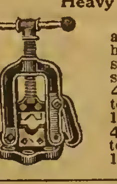
Small Clamp Vise



Clamps on table. Sliding rear jaw. Cast iron. Japanned finish.
84 C 6840—Width of jaws, 1½ inches. Opens 1½ inches. Shipping weight, 2 pounds....48¢
84 C 6841 — Width of jaws, 2 inches. Opens 2 inches. Shipping weight, 3½ pounds............65¢

48¢

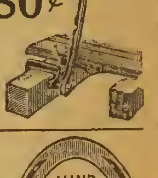
Heavy Malleable Pipe Vise



Quick action Vise for holding pipe and rods. Frame and base made of heavy malleable iron. Hardened steel jaws. Holes in base. With lag screws for fastening to bench.
484 C 6881—Size 1. Takes ⅛ to 2½-inch pipe. Shipping weight, 14 pounds $2.80
484 C 6882—Size 2. Takes ¼ to 3½-inch pipe. Shipping weight, 16 pounds..................$4.00

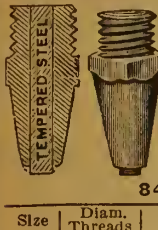
Flooring Clamp

80¢



For laying flooring and siding. Especially warped timber. Slides along a 2-inch joist, and clamps whenever lever is pushed against flooring. Malleable iron. Shipping weight, 2½ pounds.
84 C 6918.........80¢

Safety Horseshoe Calks



Will give perfect satisfaction on any shoe. Hard steel center, prevents slipping, always sharp. Square shank, so they may be fastened or removed with any ordinary wrench. Sold only in boxes of 50 calks. **State size.**

84 C 7140

Size	Diam. Threads	Fits Hole	Shipping Weight	Box of 50
A	⅜ in.	5/16 in.	1¼ lbs.	$ .75
B	7/16 in.	⅜ in.	2⅞ lbs.	.85
C	½ in.	⅜ in.	2⅞ lbs.	1.20
D	9/16 in.	½ in.	3⅝ lbs.	1.25
E	⅝ in.	9/16 in.	4¾ lbs.	1.35

Handy Shop Anvil

$4.90

An excellent well-shaped Anvil. The face is one solid piece of tool steel welded to cast iron body by a patent process. Will not loosen. Accurately ground and tempered. Fitted with hole for anvil tools. End of horn made entirely of tough untempered steel and top covered with steel. Ship. wts., same as net weights shown.

184 C 6938

Wt. 40 lbs........	$4.90
Wt. 50 lbs........	5.95
Wt. 60 lbs........	6.60
Wt. 80 lbs........	7.95
Wt. 100 lbs........	9.90

Lakeside American Wrought Anvil

14½¢ Per Lb. For the Expert Blacksmith

Forged from best and toughest iron, welded at waist. Faced with finest quality high-grade tool steel, carefully welded. Will not loosen. Face is hard and true, and tempered by a process which prevents the edges from chipping, giving a hard surface without being brittle. Shape is latest improved design, graceful and practical, and each anvil rings clear and true as a bell. Should this anvil break at the waist or its steel face become loose within one year from date of purchase, it will be replaced without charge.

Shipping weights are same as net weights shown.

Weight. Pounds..	70	100	125	150	200
184 C 6930.	$10.15	$14.50	$18.00	$21.75	$29.00

Special Farm Anvils

5½¢ Per Pound

A solid cast Anvil. Properly proportioned and the face is smoothly ground and polished. Exactly what every farmer, mechanic and handy man wants. An excellent anvil for all ordinary shop and farm use. Shipping weights same as net weights shown. **State size.**

184 C 6934

Wt. 50 pounds..	$2.75
Wt. 70 pounds..	3.90
Wt. 100 pounds..	5.50

Horseshoes

15¢

Extra light. Will work at any heat, from a cherry red to white or cold if necessary. Correctly shaped and may be fitted with the least possible labor. The creasing is accurate, the punching is clear through and at a proper angle for the nails. Perfect in quality, workmanship and finish. Ship. wt., per keg, 107 lbs.
84 C 7109—Fronts—Per pair. **State size.**
84 C 7110—Hinds—Per pair. **State size.**

Size Nos.............	1	2	3	4	5	6
Weight, per pr. (lbs.) ..	1½	2	2½	3	3½	4
Price, per pair........	15¢	18¢	22¢	26¢	30¢	34¢

184 C 7111—100-lb. Keg.—Fronts only.
184 C 7112—100-lb. Keg.—Hinds only.
184 C 7113—100-lb. Keg.—Fronts and Hinds.

Size Nos.	1	2	3	4	5	6
per keg	$6.15	$6.15	$6.15	$6.15	$6.15	$6.15

184 C 7114—Assorted. Front and Hind. Nos. 2 and 3—per keg..................$6.40
184 C 7115—Assorted. Front and Hind. Nos. 3 and 4—per keg..................$6.40

Drills for Screw Calks

Made of tempered steel, with ½-inch round shank for blacksmith post drills. **State size.** Shipping weights, 3 to 8 ounces.

Size Drill, inches	5/16	⅜	7/16	½	9/16
For Calks, inches	⅜	7/16	½	9/16	⅝
84 C 1714..	30¢	36¢	40¢	45¢	49¢

Taps for Screw Calks

Made of tempered steel, with strong square head for regular tap wrench. **State size.** Deep sharp threads, fast cutter.

Size, inches ...	⅜	7/16	½	9/16	⅝
Shipping weight, ounces.....	4	5	6	7	8
84 C 7142..	35¢	43¢	50¢	56¢	65¢

Square Flatters

Tempered face, with eye for wood handle. Oil finished. Shipping weights, 2½ to 5 pounds.
84 C 6950—

Size Face, In.	Each
2	$ .68
2¼..........	.85
2½..........	.98
3	1.25

Round Hand Punches

Octagon tool steel, oil finished, round points, accurately ground and polished. Length, 10 inches.

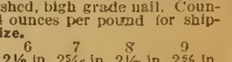
Diam. Point.	¾ in.	5/16 in.	7/16 in.
Diam. Body.	⅜ in.	⅝ in.	¾ in.
Ship. Wts....	14 oz.	16 oz.	24 oz.
84 C 7079...	23¢	25¢	29¢

Hand Punches

Drop forged steel, tempered. Fluted handle. Long taper, round points, ground true and polished. Length, 6⅜ inches.

Diam. Point.....	3/16 in.	¼ in.
Diam., Body.....	½ in.	⅝ in.
Shipping Weight.	6 oz.	9 oz.
84 C 7078....	17¢	23¢

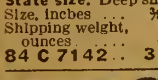
Lakeside Horseshoe Nails



Extra quality. Hot forged Nails. Uniform shape and size. Made of the best nail rod and tempered right. A fine, well finished, high grade nail. Country head. Add 2 to 4 ounces per pound for shipping weight. **State size.**

Size, No......	5	6	7	8	9
Length	2 in.	2⅛ in.	2 5/16 in.	2½ in.	2⅝ in.
84C7135–Per lb.	15¢	19¢	19¢	19¢	19¢

Steel Toe Calks



State size

Blunt Toe Calks

Size...........	1	2	3	4	5
No. in pound..	13	8	6	4	4
Width, inches..	½	9/16	11/16	¾	¾

84 C 7148—Per pound..............$ .09
25-pound Box. Ship. weight, 27 pounds.. 2.10

Sharp Toe Calks

Size...........	1	2	3	4	5
No. in pound..	11	8	5	4	4
Width, inches..	1⅛	13/16	15/16	1⅛	1⅛

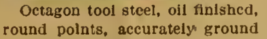
84 C 7149—Per pound............$ .09½
25-pound Box. Ship. weight, 27 pounds..2.25

Standard Cold Chisels

Forged from octagon steel. Oil finish. Lengths, 6 to 9 inches. Width may vary slightly.

Width, edge.	½ in.	¾ in.	1 in.
Diam. body..	½ in.	¾ in.	1 in.
Ship. Wts...	6 oz.	16 oz.	26 oz.
84 C 7070...	10¢	23¢	45¢

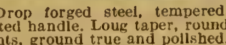
Lakeside Cold Chisels



High grade. Best quality octagon tool steel, finely tempered and nicely finished Ground sharp. Length, 5 to 8 inches.

Width, edge.	½ in.	⅝ in.	⅞ in.
Diam. body..	⅜ in.	½ in.	¾ in.
Ship. Wts...	6 oz.	8 oz.	14 oz.
84 C 7072...	18¢	25¢	40¢

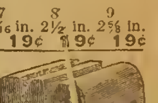
Cape Chisel



Drop forged tempered steel, with polished bit and head. Length, 6⅜ inches. **State size.**

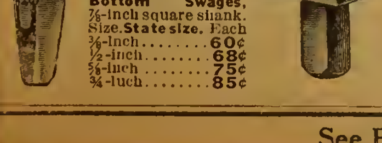
Width, edge......	¼ in.	5/16 in.
Diameter body....	¼ in.	⅝ in.
Shipping weight..	6 oz.	8 oz.
84 C 7075.........	19¢	25¢

Welding Dies



Forged steel. Self-cleaning for toe calks. Size, 3 11/16 by 3½ inches, with ⅞-inch shank. Shipping weight, 5 pounds.
84 C 7156—For sharp calks, sizes, 0, 1, 2 and 3.. $1.35
84 C 7157—For sharp calks, sizes, 4, 5 and 6 ....$1.35

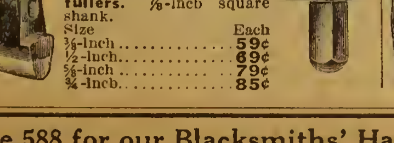
Swages



Forged steel. Ship. weights, 2 to 3 lbs.
84 C 6956—Top Swages
84 C 6957—Bottom Swages, ⅞-inch square shank. Size. **State size.** Each

⅜-inch........	60¢
½-inch........	68¢
⅝-inch	75¢
¾-inch........	85¢

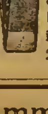
Fullers



Forged steel. Shipping weights, 2½ to 3½ pounds.
84 C 6954—Top fullers.
84 C 6955—Bottom fullers. ⅞-inch square shank.

Size	Each
⅜-inch	59¢
½-inch.............	69¢
⅝-inch	79¢
¾-inch.............	85¢

Cold Cutters



84 C 6963 — Standard quality. Forged steel; oil finish. For cold iron; 1⅜-inch cut. Shipping weight, 3 pounds.....65¢

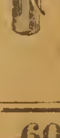
84 C 6964— Heller Bros.' extra quality; 1⅜ inch cut. Shipping weight, 2½ pounds..........80¢

Hot Cutters

Standard quality oil finish forged steel cutter for hot iron; 1⅜-inch cut. Shipping weight, 3 pounds.
84 C 6962........65¢

84 C 6965— Heller Bros.' extra quality. 1⅜-inch cut. Shipping weight, 2½ pounds........80¢

Hardies



Hardies. Forged steel; Tough, strong and correctly shaped. State size. Shipping weights, ½ to 1⅝ pounds.
84 C 6952 For Holes

½-inch..........	25¢
⅝-inch	30¢
¾-inch	40¢
⅞-inch	48¢
1-inch..........	50¢

See Page 588 for our Blacksmiths' Hammers

With Hood

High Grade Gear Driven Forge

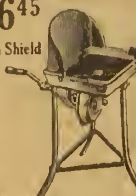
A Low Priced Forge Which Can Heat a 4-Inch Iron In Less Than Half the Time of Most Similar Forges

$6.85

A very strong, compact and well constructed Forge. Has a high grade, gear driven blower with an 8-inch fan instead of the ordinary belt-driven ratchet lever type. This type of blower always gives a constant blast and the crank may be turned either forward or backward, which makes it easy to operate and much more efficient than the old type. The gears are made of the finest grade steel and are machine cut.

There are ten fewer parts to this forge than to the ordinary pump lever type. The hearth is of extra heavy cast iron, 19 inches long, 15 inches wide and 2¾ inches deep. Total height of forge, 49 inches. The three legs are made of steel pipe, and securely braced. The entire forge is nicely painted. Net weight, with hood, 55 pounds. Shipping weight, with hood, 65 pounds.

184 C 6505—With Hood.................... **$6.85**



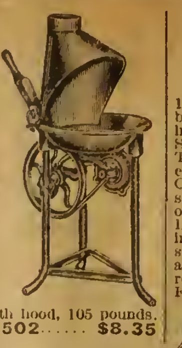
$6.45 With Shield

Gear Driven Forge with Shield

This is exactly the same Forge as described above—in workmanship, material, size and finish—but is equipped with the shield, as shown in the small picture, instead of with the full hood. Net weight, with shield, 53 pounds. Shipping weight, with shield, 63 pounds.

184 C 6506—With Shield......... **$6.45**

Blacksmiths' Forge Pump Lever Champion No. 101



Strong, compact, well constructed. Will do all ordinary farm blacksmithing. Heavy cast iron hearth; diameter, 22 inches, depth, 3½ inches. The ratchet lever motion is positive, never slips and produces a strong blast with only a slow motion of the lever. Diameter of fan case, 9 inches. Three legs of steel pipe, securely braced. Nicely painted. The hood may be connected with stove pipe for indoor use. Total height, 54 inches. Shipping weight, with hood, 105 pounds.

184 C 6502...... **$8.35**

With Steel Shield Champion No. 100

Same as above, except with shield in place of hood. Total height, 41 inches. Shipping weight, with shield, 95 pounds.

184 C 6503..... **$8.00**

Champion Eureka Forge With Hood

Improved Helical Gears $10.65

Champion No. 148. Crank driven blower with cut helical gears. Smooth running. Turns easily in either direction. Gives strong high pressure blast. Gear case is oil tight and dustproof. Large hearth (22 inches in diameter) for this style of forge. Useful around a farm or garage, for repair work. Height, 54 inches. Fan diameter 8 inches. Shipping weight, with hood, 110 lbs.

184 C 6507... **$10.65**

$9.75

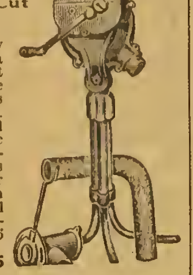
With Shield Champion No. 147

Same as above, except with shield, instead of Hood. Shipping weight, 105 pounds.

184 C 6509...**$9.75**

Low Priced Geared Blower

$11.95 **High Grade Machine Cut Gears**

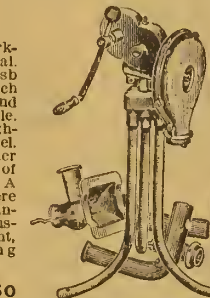


A direct driven, low priced Blower with extra large gears. End thrust ball bearings on spindle saves wear and makes blower easy to operate. The crank may be turned in either direction. The head is adjustable. Diameter of fan case, 11½ inches. Tuyere iron and blower pipe are included as shown in the illustration. Total height, from floor, 46 inches. Shipping weight, 116 pounds.

184 C 6544..**$11.95**

Champion No. 400 Blower

Phosphor Bronze Spiral Gears



Highest grade workmanship and material. Spiral bronze gears mesh 8 teeth at once, which makes lost motion and noisy running impossible. Ball bearings throughout. Shaft is tool steel. Crank turns in either direction. Diameter of fan case, 12 inches. A famous whirlwind tuyere iron and piping are included as shown in illustration. Total height, 47½ inches. Shipping weight, 110 pounds.

184 C 6540 .... **$25.50**

Champion No. 143 Geared Forge

Crank Driven Blower Helical Cut Gears

$16.50

A very efficient high quality Forge, at an unusual saving in price.

Blower has 10-inch fan. Smooth running, noiseless. Gives a strong, steady, high pressure blast by turning the crank easily in either direction. Gear case oil tight and dustproof. Hearth, 23 by 30 inches. The large hearth and fan make this a very useful forge for machinists, garage use, boiler making or heavy farm use. Height, 30 inches. Shipping weight, with steel hood, 140 pounds.

184 C 6516—With Hood............ **$16.50**

Lancaster Geared Forge

Easy Running Geared Blower

Crank Turns in Either Direction

Champion No. 43 with Hood $22.80

Diameter of fan, 10 inches. Size of hearth 23 by 36 inches; 3¼ inches deep. Four legs made of steel pipe, securely fastened. Strong sheet steel hood. Entire forge nicely painted. Total height, 55 inches. Ship. wt., with hood, 180 pounds.

184 C 6520—With Hood............ **$22.80**

184 C 6521—Same as above, except with sheet steel shield instead of hood. Shipping weight, 170 pounds. With Shield.................. **$21.65**

A complete combination of tools. **Forge Vise, Anvil, Pipe - Vise Drill - Press and Hardie.** This outfit is well made in every detail. **Quality is Guaranteed.** Price is unusually low.

Lakeside Combination Repair Outfit

$12.65

Occupies floor space 16 by 12 inches. Height to top of vise, 3 feet 2 inches. Height to top of forge pan, 29½ inches. Entire outfit is mounted on heavy angle steel stand, well braced and rigid.

Blacksmith Forge—With cast hearth, 12 by 14 inches; 2½ inches deep. Cut-away for bars or plow shares. Cut geared, silent running blower gives steady, forced blast.

Vise—Has four jaws, with pipe-vise jaws to take up to 2½-inch pipe.

Anvil—Properly shaped. Face ground true. With hardie.

Drill Press—Three speeds: 1 to 1; 1 to 4; 1 to 22. With chuck for ½-inch round shanks. Will drill to center of 10-inch circle. Gear case for forge removable to drill. Shipping weight, complete outfit, 165 pounds.

184 C 6471—Complete outfit **$12.65**

$32.35

Heavy Blacksmiths' Lancaster Geared Forge
Champion No. 41 For General Blacksmithing

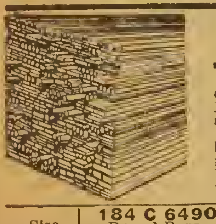
Has an extra heavy, roomy, oblong cast iron hearth, especially shaped to take plow shares, or other large size work. Hearth is 32 by 45 inches and 3 inches deep. Equipped with tool rest and a coal box, 24 by 9 by 5 inches deep cast into the hearth. Also has water tank, as illustrated, 24 by 9 by 6½ inches deep. The tuyere iron is very heavy and has an adjustable blast. Has a very powerful geared blower with an adjustable crank. Diameter of fan case, 12 inches. Strong open steel hood. Four steel pipe legs. Strongly made and nicely painted. Total height, 64 inches. Shipping weight, with hood and water tank, 330 pounds.

184 C 6524—With Hood and Water Tank..... **$32.35**

Without Water Tank

184 C 6525—The same Forge as above, with steel hood, but without water tank. Shipping weight, 300 pounds. **$28.50**

Bar Iron



Weights and prices on Round, Square and Flat Iron shown below, are for **Single Bars** of 16 feet. Sold only in bars. Order by the bar, not by the pound. Weights given are approximate.

Size Inches	184 C 6490 Round Bars		184 C 6491 Square Bars	
	Wt., lbs.	Price	Wt., lbs.	Price
5/16	4	11¢	....	....
3/8	5¾	15¢	7½	19¢
7/16	8	21¢	....	....
1/2	10½	27¢	13¼	33¢
9/16	13½	34¢	....	....
5/8	16½	41¢	20¾	49¢
3/4	23½	56¢	30	70¢
7/8	33	79¢	....	....
1	42	96¢	....	....

Flat Iron Bars

Wdth In.	⅛-in. thick 184C6492		3/16-in. thick 184C6493		¼-in. thick 184C6494	
	Ship. wt. lbs.	Per Bar	Ship. wt. lbs.	Per Bar	Ship. wt. lbs.	Per Bar
¾	5¼	15¢	....	....	....	....
⅞	6¼	19¢	....	....	....	....
1	7	20¢	10	28¢	13½	35¢
1¼	8¼	23¢	12½	34¢	16¾	42¢
1½	10	28¢	15	41¢	20	50¢
1¾	11½	32¢	....	....	23½	58¢
2	13	36¢	20	54¢	26¾	66¢

Wdth In.	5/16-in. thick 184C6495		⅜-in. thick 184C 6496		½-in. thick 184C6497	
1¼	20¾	54¢	25	$.60	....	....
1½	25	62¢	30	.68	40	$.91
1¾	....	....	....	....	46¾	1.07
2	33½	82¢	40	.91	53½	1.22
2½	....	....	50	1.14	66¾	1.52
3	....	....	60	1.37	80	1.82

Special Round Edge Tire Iron

Sold only in full sets of four bars, two bars 12½ feet, and two bars 13½ feet.

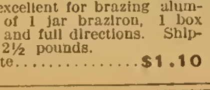
Size Inches	Ship. Wt. Per Set lbs.	184 C 6497 Per Set	Size Inches	Ship. Wt. Per Set lbs.	184 C 6498 Per Set
1 by ¼	45	$1.16	1½ by ½	137	$3.30
1¼ by ⅜	85	2.10	2 by ½	180	4.65
1½ by ⅜	103	2.50			

E-Z Welding Compound

Conceded by all users to be the best compound on the market for welding all grades of steel and iron. It welds at a lower heat, and will make a stronger and smoother weld. Shipping weight, 5 pounds.

84 C 7153—Per 5-pound box.......... **45¢**

Braziron Outfit for Repairing and Brazing

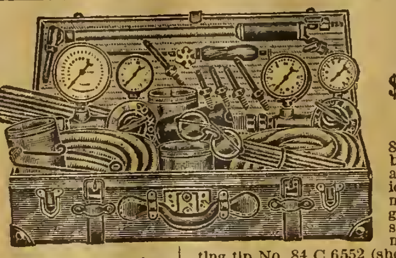


For making many quick repairs on various machinery about farm and home. Also excellent for brazing aluminum. Outfit consists of 1 jar braziron, 1 box flux, 1 package spelter, and full directions. Shipping weight, complete, 2½ pounds.

84 C 7154—Complete.............. **$1.10**

Lakeside Welding and Cutting Supplies

Complete Welding Outfit

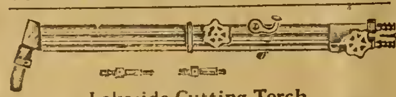


The Lakeside Welding Outfit is indispensable for blacksmiths, sheet-metal workers, plumbers, and farmers who do their own repair work. Also for use in garages, repair shops, sawmills, junk yards, and factories.

At this low price you get a welding outfit capable of welding any metal from the lightest up to the heaviest. It also will remove carbon from a gasoline engine in a few minutes. For cutting steel up to 2 inches thick use Cutting Tip No. 84 C 6552 (below) with this set.

Set consists of the following:
1 Lakeside Welding Torch, 6 welding tips.
1 Carbon Removing Torch.
1 Safety Torch Lighter.
1 Oxygen Regulator with one 3,000-pound gauge and one 300-pound gauge.
1 Acetylene Regulator with one 300-pound gauge and one 50-pound gauge.
2 lengths of 5-ply Hose (12 feet each), with 4 Hose Clamps to fit.
1 Adapter.
1 Pair of Welding Goggles.
1 Book of Instructions.
24 Welding Rods. (10 Steel, 8 Cast Iron, 3 Brass, and 3 Aluminum.)
3 Pounds of Flux. (1 pound Cast Iron, 1 pound Brass, and 1 pound Aluminum.)
Shipping weight of complete outfit packed in convenient carrying case, 30 pounds

184 C 6550—Complete outfit....... **$44.00**



Lakeside Cutting Torch

One of the most efficient cutting torches manufactured. Cuts steel from the thinnest up to 8 inches in thickness. Furnished with 3 cutting tips, packed in box. Shipping weight, 6 pounds.

184 C 6554................. **$20.00**

Lakeside Cutting Tip

May be used with either of the above outfits. Will cut steel up to 2 inches thick. Shipping weight, 5 ounces.

84 C 6552..................... **$4.50**

Lakeside Oxygen Regulator

Equipped with one 3,000-pound gauge and one 300-pound gauge. Shipping weight, 5 pounds.

84 C 6555...................... **$17.50**

Lakeside Acetylene Regulator

Equipped with one 300-pound gauge and one 50-pound gauge. Shipping weight, 7 pounds.

84 C 6556...................... **$12.75**

Oxygen and Acetylene Hose

High grade. Five ply. For oxy-acetylene welding use. Shipping weight, per foot, 8 ounces.

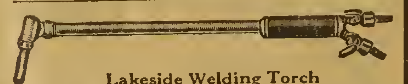
84 C 6559—Per foot.............. **20¢**

Welding Outfit for Small Shop and Garage

$32.50 **Complete Outfit**

Similar to Outfit No. 84 C 6550 (shown at left) but has single oxygen and acetylene regulators. The ideal outfit for light or medium heavy work in garages, repair and blacksmith shops. Will remove carbon. With cutting tip No. 84 C 6552 (shown below) may be used for cutting steel. The carrying case is well constructed and makes it easy to carry the entire set. Outfit consists of the following:
1 Lakeside Welding Torch, 5 Welding Tips.
1 Carbon Removing Torch.
1 Safety Torch Lighter.
1 Oxygen Regulator with one 50-pound gauge.
1 Acetylene Regulator with one 50-pound gauge.
2 lengths of Hose (10 feet each), with 4 clamps to fit.
1 Adapter.
1 Pair of Welding Goggles.
1 Book of Instructions.
24 Welding Rods. (10 Steel, 8 Cast Iron, 3 Brass, and 3 Aluminum.)
3 pounds of Flux. (1 pound Cast Iron, 1 pound Brass, and 1 pound Aluminum.)
Shipping weight of complete outfit packed in convenient carrying case, 30 pounds.

184 C 6551—Complete outfit...... **$32.50**



Lakeside Welding Torch

Capable of welding from the lightest piece of metal up to the heaviest; welding any metal that melts. Furnished with 6 welding tips. Shipping weight, 6 pounds.

184 C 6553..................... **$10.50**

Lakeside Welding Flux

For Cast Iron, Brass, Steel and Aluminum. Airtight containers. Shipping weight, 18 ounces.

84 C 6558—Per pound.................**30¢**

Lakeside Cast Iron Welding Rod

Shipping weight, 17 ounces

Diam. In.	3/16	¼	5/16	⅜	½
84 C 6560—Per pound	15¢	15¢	15¢	10¢	10¢

Steel Rods, Plain

Shipping weight, 17 ounces

Diameter, inches	⅛	3/16	¼
84 C 6561—Per pound	18¢	15¢	15¢

Bronze Rods

Shipping weight, 17 ounces

Diameter, inches	⅛	3/16	¼
84 C 6564—Per pound	50¢	50¢	38¢

Brazing Wire

Shipping weight, 17 ounces

Diameter, inches	⅛	3/16	¼
84 C 6563—Per pound	50¢	50¢	50¢

Aluminum Rods

Shipping weight, 17 ounces

Diameter, inches	3/16	¼	5/16
84 C 6562—Per pound	70¢	70¢	70¢

Tuyere Irons

Norton Tuyere Iron

Made of heavy cast iron. The blast is regulated by turning the large rod. Ashes removed by pulling small rod. Levers and spring easily changed to right or left-hand side. Length, 28 inches. Width, 13¼ inches. Height, 6¼ inches. Shipping weight, 27 pounds.

184 C 6580...................... **$2.45**

Duck Nest Tuyere Iron

Single Duck nest pattern. Cast iron. Without blast regulator. Total length, 16 inches. Total width, 12 inches. Height, 3½ inches. Shipping weight, 13 pounds.

484 C 6574........................ **85¢**

Sutton Tuyere Iron

Tuyere Iron and Fire Bowl. Cast iron. Large and heavy. Insures clean, bright fire. Will give satisfaction. Size of fire bowl, 13¼ by 11½ inches. Shipping weight, 42 pounds.

484 C 6578..................... **$4.10**

Geared Tire Bender

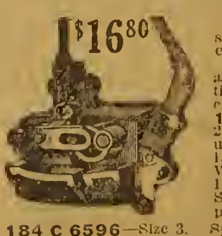
$9.30 Bends a 4½-inch tire or smaller to a circle 24 inches in diameter or larger. Length, 25 inches. Width, 8 inches. Height 12 inches. Shipping weight, 100 pounds

184 C 6604 .... **$9.30**

184 C 6605—Bends a 6-inch tire or smaller to a circle 24 inches in diameter or larger. Length 25 inches. Width, 9 inches. Height, 12 inches. Shipping weight, 115 pounds. **$10.25**

Stoddard Tire Upsetter

$16.80



For forming tires so they may be properly fitted to wheels. One man can operate it. Will not kink tire. Short lever included.

184 C 6595— Size 2. Will upset any tire up to 4 inches wide. Length, 15 inches. Width, 15 inches. Height, 18 inches. Shipping weight, 215 pounds..... **$16.80**

184 C 6596—Size 3. Special 4-inch machine. Loose jaws; will adjust for large and small circles for upsetting axles from 1 inch to 1¾ inches square. Length, 24 inches. Width, 19 inches. Height, 20½ inches. Shipping weight, 300 pounds **$21.00**

Please lend this catalogue to your neighbors

Grindstones

Ball Bearing Grindstones Steel Frame

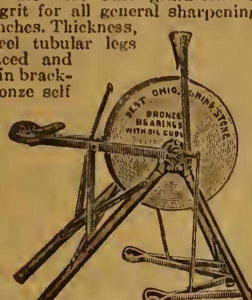
Easy running ball-bearing. Fitted with a smooth, even grit, best Ohio grindstone. Diameter, 20 inches; thickness, 2 inches. Frame is angle steel strong and rigid with comfortable steel seat. Well painted. Shipping weight, 90 pounds.

184 C 6780—........ **$5.20**

Tubular Steel Frame Grindstone

Hard Bronze Bearings

Fitted with the best Ohio grindstone of smooth even grit for all general sharpening. Diameter, 20 inches. Thickness, 2 inches. Steel tubular legs firmly braced and clamped to main bracket at top. Bronze self aligning bearings with oil cups make it run easily and smoothly Has adjustable seat. Shipping weight, 100 pounds.



184 C 6781—
Each. **$6.75**

Power Grindstone

An excellent Grinder for the farm or shop. A well made, durable substantial machine of high grade steel strongly bolted and braced. Fitted with easy running ball bearings, and has a heavy galvanized iron pan or trough. Steel shaft with pulley, 6 inches by 3 inches. Best grade Ohio grindstone. Smooth even grit. Diameter, 22 inches. Thickness, 2½ inches. Shipping weight, 170 pounds.

$9.95

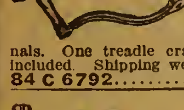
184 C 6785—.......... **$9.95**

Unmounted Grindstone

Smooth, even grit, fast cutting. Weights vary slightly.

Diam.	Ship. wt.	184 C 6788
16 in.	40 lbs.	$ .98
18 in.	50 lbs.	1.30
20 in.	60 lbs.	1.55
22 in.	80 lbs.	2.10
24 in.	100 lbs.	2.60
26 in.	120 lbs.	3.25
28 in.	150 lbs.	3.90
30 in.	200 lbs.	5.20

Grindstone Fixture



Very easy running. Steel axle. Length about 10 inches. Takes stone up to 30 by 2¾ inches. Has ball bearing journals. One treadle crank and one hand crank included. Shipping weight, 6 pounds.

84 C 6792........................ **$1.10**

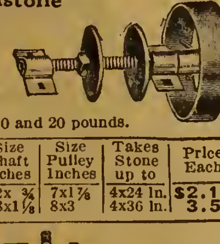
Grindstone Fixture

Heavy cast iron, Japanned. Roller bearing. Will handle any size stone within weights given.

Article Number **84 C 6790**

Length	For Stone	Shipping Weight	Price, Each
15 inches	50 pounds	5 pounds	59¢
19 inches	80 pounds	5¾ pounds	74¢
21 inches	100 pounds	6½ pounds	89¢

Power Grindstone Shaft

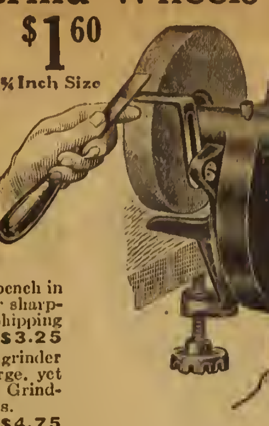


Easy running and strong. Threaded Steel Shaft. Iron pulley and bearings. Heavy flanges hold stone rigid. Shipping weights, 10 and 20 pounds.

Article No.	Size Shaft Inches	Size Pulley Inches	Takes Stone up to	Price Each
484 C 6794	12x ¾	7x1⅞	4x24 in.	$2.10
484 C 6795	18x1⅛	8x3	4x36 in.	3.55

Grinders and Grind Wheels

The Handiest and Quickest Small Tool Grinder You Can Buy. Made in 4 Sizes for as many Different Kinds of Grinding



$1.60
4 by ¾ Inch Size

Fast Cutting—Easy Running

84 C 6680—Household Size—Put keen edge on knives and scissors. Will fit into drawer or cupboard. Clamp on table or sink. Wheel, 4 by ¾ inch. Shipping weight, 5 pounds. **$1.60**

84 C 6681—Mechanic Size—Will fit handily into tool chest, but is big enough for all tool-grinding required by mechanic who goes out on the job. Grinding wheel, 5 by 1 inch. Shipping weight, 6½ pounds **$2.30**

84 C 6682—Shop or Garage Size—For work bench in repair shop or private garage. Mechanics like it for sharpening their tools. Grinding wheel, 6 by 1 inch. Shipping weight, 10 pounds. Each........................ **$3.25**

484 C 6683—Factory Size—A big, powerful grinder for machine shops, lumber camps or ranches. Large, yet smooth running; heaviest grinding is easily handled. Grinding wheel, 7 by 1 inch. Shipping weight, 13½ pounds. **$4.75**

Lakeside Grinding Wheels

Made of Pure Emery and Corundum
The General Purpose Wheel

84 C 8510

Made in two different styles; square face and round face. The holes may be made any size desired, to fit your shaft. The square face wheels are shipped from stock in Chicago. The round face wheels are shipped from factory in Northern Illinois. Prices are the same for both styles. Shipping weights, from 2 ounces to 40 pounds.

84 C 8510—Square face wheels. Shipped from stock.
284 C 8512—Round face wheels. Shipped from Factory in Northern Illinois.

284 C 8512

Order by these numbers and be sure to state clearly the diameter, thickness, size of hole and shape of face wanted.

Diameter Wheel	Thickness of Wheels						
	¼ Inch	½ Inch	¾ Inch	1 Inch	1¼ Inches	1½ Inches	2 Inches
2 Inches	16¢	$ .20	$ .26	$ .29	Price, Each		
3 Inches	22¢	.29	.35	.42			
4 Inches	32¢	.40	.48	.56			
5 Inches	43¢	.54	.66	.77			
6 Inches	54¢	.69	.83	.98	$1.12	......	......
8 Inches	78¢	1.02	1.26	1.50	1.76	$1.98	$2.48
10 Inches	....	1.40	1.79	2.16	2.56	2.92	3.68
12 Inches	....	1.73	2.24	2.73	3.23	3.76	4.82

Special Tool Grinding Wheel

Made of best materials. For edge tools. Will put a keen, smooth edge on any tool in a short time. Wears down slowly. Give diameter, thickness and size of hole wanted. Shipping weights, 6 ounces to 15 pounds.

84 C 8518

Diameter	Thickness			
	¾ In.	1 In.	1¼ In.	1½ In.
4 Inches	$ .48	$ .56	.....	.....
6 Inches	.83	.98	$1.15	.....
8 Inches	1.27	1.55	1.80	$1.95
10 Inches	1.85	2.25	2.65	3.00

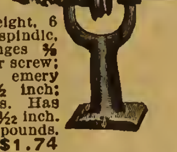
Blacksmiths' Special Wheels

Square Face. For all kinds of rough work on iron and steel castings, plows and agricultural implements. Give diameter, thickness and size of hole wanted. Shipping weights, 12 to 45 pounds.

84 C 8515

When ordering grinding wheels, be sure to state diameter, thickness and size of hole wanted.	Diam. Inches	Thickness of Wheel			
		1¼ In.	1½ In.	2 In.	2½ In.
	8	$1.78	$1.90	$2.48	$3.00
	10	2.58	2.95	3.70	4.50
	12	3.25	3.78	4.85	5.80
	14	4.50	4.75	6.30	7.40
	16	5.00	5.90	7.60	9.30

Polishing Head



For round belt. Height, 6 inches. Has 9-inch spindle, diameter between flanges ⅝ inch. One end has taper screw; other end will hold emery wheels up to 6 by ½ inch; buffers and small saws. Has chuck for drills up to ³⁄₃₂ inch. Shipping weight, 4 pounds.

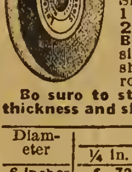
84 C 6702........ **$1.74**

Cloth Buffing Wheels

Unbleached muslin. 18-ply. Shipping weights, 3 to 9 ounces.

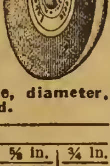
Diameter, inches....	4	6	8	10	12
84 C 6742...	10¢	17¢	26¢	40¢	55¢

Special Saw Gumming Wheel



84 C 8520—Round Face. Fast cutting wheel. Shipping weight, 1 to 12 pounds.

284 C 8521—Bevel Face. Same sizes, prices and shipping weights as round face.



Be sure to state style of face, diameter, thickness and size of hole wanted.

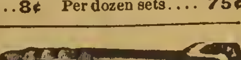
Diameter	Thickness				
	¼ In.	⅜ In.	½ In.	⅝ In.	¾ In.
6 Inches	$ .72	$ .90	$ .93	$1.10	....
7 Inches	.87	1.10	1.13	1.35	....
8 Inches	1.00	1.33	1.35	1.65	....
9 Inches	1.20	1.55	1.58	1.94	....
10 Inches	1.35	1.83	1.85	2.33	$2.38
12 Inches	1.58	2.24	2.28	2.93	2.95

For Extraordinary Values in Canvas, Rubber or Leather Belting, See Next Page

Our Prices for high quality belting are as low, or lower than dealers usually pay and every foot is fully guaranteed

Buy Now

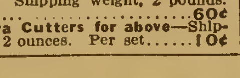
Emery Wheel Dresser



84 C 6745—With two sets of cutters. Shipping weight, 2 pounds.......................... **45¢**

84 C 6746—Extra Cutters for above—Shipping weight, per set, 2 ounces.
Per set............ **8¢** Per dozen sets.... **75¢**

Emery Wheel Dresser



84 C 6748—Especially for large wheels or grindstones. With two sets of cutters. Diameter cutters, 1½ inches. Shipping weight, 2 pounds. .... **60¢**

84 C 6749—Extra Cutters for above—Shipping weight, per set, 2 ounces. Per set...... **10¢**

Lathe Set

Combination Grinder and Lathe

Goodell-Pratt - Style 306. Foot Power Bench Grinder with lathe Attachment. Bed is 18-inches long, 12 inches between centers and will swing 5 inches. Has a spur center for the lathe, and the tail stock has a reversible spindle with a center on each end. Adjustable tee rest. Table not included. Finest abrasive wheel, 4 by 1 inch, included. Shipping weight, 29 pounds

$10.75 Complete

184 C 178.................... **$10.75**

Millers Falls Goodell Lathe

$24.95

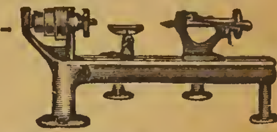
A fine, two speed, iron frame Lathe, for amateur use. With a 2-inch face plate, spur center; screw center, 4 by ¾-inches; emery wheel, and steel drill chuck. Tail stock has a screw-feed-center, with clamp. With long and short tool rest, 5 turning tools, wrench and drill points. Length, 24 inches. Between centers, 13½ inches. Swing, 5 inches.

184 C 175—With Scroll Saw, as illustrated, having table and blower and 12 blades. Shipping weight, 78 pounds.................... **$24.95**

184 C 174—Without Scroll Saw. Shipping weight, 70 pounds.................... **$21.00**

For other scroll saws and grinders see page 586.

Goodell-Pratt Bench Lathe



Goodell-Pratt Lathe Number 125. 12-inches between centers, 7 inch swing. **Slide rest, compression check and countershaft listed below.** This lathe requires less than ¼ horse power and will operate within limits for such jobs as truing up starter arbors, turning down commutators, facing off badly pitted valves, and general repair work. Slide rest, check and countershaft not included. Shipping weight, 40 pounds.

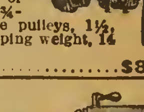
184 C 6760—Lathe only............ **$25.75**

284 C 6762—Goodell-Pratt Slide Rest Number 132. Solid ¼ by ¼ lathe tools. Used with 184 C 6760 lathe. Shipping weight, 8 pounds **$11.50**

284 C 6763—Compression Chuck-Goodell-Pratt Number 129. Used with 184 C 6760 lathe. Complete with one bushing. Shipping weight, 3 pounds **$7.40**

Slide Rest and Chuck Shipped from Factory in Massachusetts.

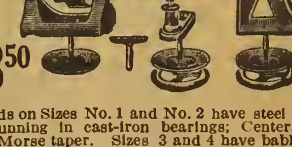
Countershaft



For use with 184 C 6760 lathe. A treadle may be attached to automatic belt shifter. Diameter of tight and loose pulleys, 2¾-inches. Diameter of cone pulleys, 1½, 2½ and 3½ inches. Shipping weight, 14 pounds.

484 C 6761........................ **$8.65**

Lathe Set



$13.50

Heads on Sizes No. 1 and No. 2 have steel spindles running in cast-iron bearings; Centers are No. 1 Morse taper. Sizes 3 and 4 have babbitted bearings; centers are No. 2 Morse taper. Each set consists of: 1 head stock, 1 tail stock, 2 tee rests, 1 rest socket, 1 face plate, 1 common center, 1 spur center, hand wheel rests, flanges and bolts for fastening to the bed.

184 C 6765

Size	Swings	Speeds on cone	Belt width	Shipping Weight	Per Set
No. 1	6 In.	2	1 In.	18 lbs.	$13.50
No. 2	8 In.	2	1¼ In.	35 lbs.	18.90
No. 3	11 In.	3	1½ In.	80 lbs.	30.50
No. 4	13 In.	4	1½ In.	118 lbs.	48.90

Countershaft for Lathe Sets

To use with above Lathe Sets. Two to four steps on cone. Pulleys match pulleys on same size lathe sets. **State size. 484 C 6766**

Size	Shipping Weight	Each
No. 1	23 pounds	$ 6.90
No. 2	25 pounds	9.70
No. 3	48 pounds	14.00
No. 4	57 pounds	16.80

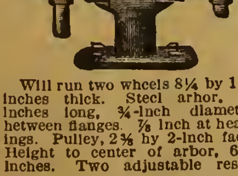
Ring Oiling Bearings Grinding Machines Ring Oiling Bearings

Light Grinder

Will run two wheels 6 by 1 inch thick. Steel arbor 11 in. long, ¾-in. diameter at bearings and ⅜-in. diameter between flanges. Pulley 1⅞ by 1½ in. face. Height to center of arbor, 5 inches.

484C6710 Without Floor Stand. Ship. wt., 15 pounds..**$3.15**

184C6711 With Stand. 32 in. high. Ship. wt., 65 lbs.............. **$9.25**



Will run two wheels 8¼ by 1¼ inches thick. Steel arbor, 14 inches long, ¾-inch diameter between flanges. ⅞ inch at bearings. Pulley, 2⅜ by 2-inch face. Height to center of arbor, 6¼ inches. Two adjustable rests.

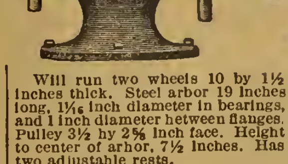
484 C 6712—Without Floor Stand. Shipping weight, 25 pounds................ **$6.30**

184 C 6713—With Stand. Height, 32 inches, Shipping weight, 85 pounds...... **$13.25**

Special Value $6.75

Will run wheels up to 12 by 1½ inches. Steel arbor, 17 inches long, ¾ inch diameter. Tight and loose pulleys, 3 by 2⅛-inch face. Adjustable tool rest, and bearings with oil cups; 10 inches high. We recommend 8 by 1¼-inch wheels. Shipping weight, 40 pounds.

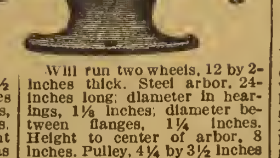
484 C 6714....... **$6.75**



Will run two wheels 10 by 1½ inches thick. Steel arbor 19 inches long, 1¹⁄₁₆ inch diameter in bearings, and 1 inch diameter between flanges. Pulley 3½ by 2⅝ inch face. Height to center of arbor, 7½ inches. Has two adjustable rests.

484 C 6715 — Without Floor Stand. Shipping weight, 45 pounds................ **$10.75**

484 C 6716 — With Stand. Height, 29½ inches. Shipping weight, 130 pounds...... **$21.15**



Will run two wheels, 12 by 2-inches thick. Steel arbor, 24-inches long; diameter in bearings, 1⅛ inches; diameter between flanges, 1¼ inches. Height to center of arbor, 8 inches. Pulley, 4¼ by 3½ inches face. Adjustable rests.

184 C 6717 — Without Floor Stand. Shipping weight, 100 pounds......... **$14.80**

184 C 6718—With Stand. Height, 27½ inches. Shipping weight, 230 pounds.. **$28.50**

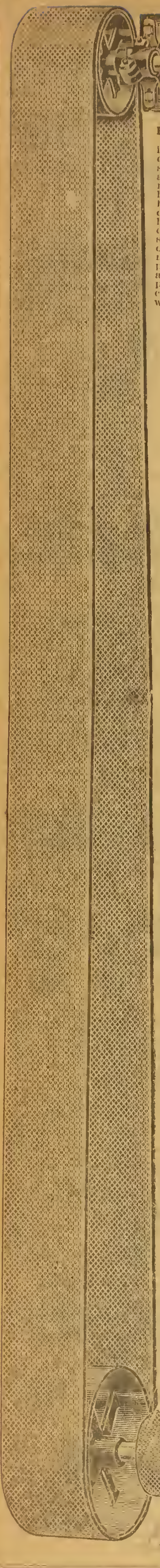
Heavy Floor Grinder

$18.25

Has tight and loose pulleys. Long bearings, well babbitted, with dust-proof collars. Adjustable rests. Will carry two wheels, 12 by 2 inches or smaller. Height, arbor to floor, 35½ inches. Length, arbor, 27 inches. Diameter, arbor between collars, 1 inch. Size pulleys, 3½ by 3-inch face. Shipping weight, 105 pounds.

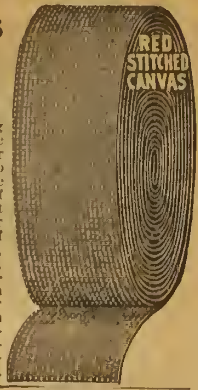
184 C 6720............ **$18.25**

See Page 587 for Lakeside Circular Saws



Finest Quality — Belting — Lowest Prices

6¢ Canvas Belting
32-Ounce Red Stitched
Per Foot



Our Stitched Canvas Belting is not affected by atmospheric changes or injured by water or steam, and may be subjected to a degree of heat that would be ruinous to many other kinds of belting. It is therefore the best belting for outdoor use and for damp or hot places. Made of long fiber 32-ounce cotton duck, carefully and closely stitched, stretched and inspected. Thoroughly saturated in oil, which makes it permanently water proof and flexible. Covered with a special waterproofing compound which gives the belt an excellent non-slipping surface. Always flexible in hot or cold weather.

84 C 7690—4-ply. Shipping weight, foot, 2 to 17 oz.

Width Inches	Per Foot	Width Inches	Per Foot
1½	6¢	6	22¢
2	8¢	7	26¢
2½	11¢	8	29¢
3	12¢	9	34¢
3½	14¢	10	35¢
4	16¢	12	45¢
5	19¢		

84C8692 6-ply. Ship. wt., ft., 6 to 27 oz.

Width Inches	Per Foot
3	16¢
4	23¢
5	29¢
6	34¢
7	38¢
8	43¢
9	46¢
10	51¢
12	66¢

Endless Canvas Thresher Belts
Full 32 Ounce Weight

Made in the same manner as our red stitched canvas belting of long fiber 32-ounce cotton duck. Especially adapted for threshers, saw mills, stone crushers and similar severe uses. It requires three feet to make the lap, therefore in measuring, each belt will be just three feet short. For example, the actual net length of a 100-foot belt will be 97 feet. We carry in stock for prompt shipment, the following standard lengths and sizes. Shipping weight, per foot, 6-inch, 11 ounces; 7-inch, 12 ounces; 8-inch, 14 ounces.

184 C 7700—Four-ply Belts.

Length	5-In. Width	6-In. Width	7-In. Width	8-in. Width
50 ft.	$ 9.95	$11.95	$13.75	$15.30
75 ft.	14.85	17.85	19.40	23.50
100 ft.	19.90	22.75	24.50	28.70
125 ft.	....	28.30	31.65	35.90
150 ft.	....	....	36.90	43.50

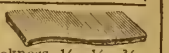
184 C 7702—Five-ply Belts.

Width	Ship. Wt., Per Foot	125-Ft. Length	150-Ft. Length	160-Ft. Length
7 inches	14 ounces	$40.85	$47.15	....
8 inches	16 ounces	46.10	50.75	56.75

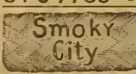
184 C 7703—Six-ply. Shipping weight, per foot, 18 ounces; 8 inches wide. Length, 150 feet....**$65.10**

Packing and Waste

Red Rubber Packing



Will not harden under extreme heat. In rolls 36 inches wide. We do not cut rolls lengthwise. Thickness, 1/32, 1/16, 3/32, 1/8, 3/16 and ¼-inch. **State size.** Shipping weight, per square yard, 3 to 24 pounds.
84 C 7788—Per pound........................**35¢**



Smoky City Packing
Made of all cotton stock well lubricated with graphite compound. Has an elastic rectangular center of pure rubber. For steam use. Number of feet in a pound, 21, 11, 6. Sizes, ¼, ⅜, ½ inch. Oval shape. **State size.** Shipping weight, per pound, 18 ounces.
84 C 7782—Per pound........................**62¢**

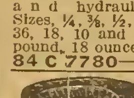
Red and Black Packing

Of pure asbestos, with a fine copper wire insertion. For gas engines and automobiles. Surfaced with a high heat-resisting compound, furnished 39 inches wide only. Thickness, 1/32 inch. Shipping weight, per lineal foot, 1¾ pounds.
84 C 7790—Per lineal foot..............**$1.45**

Asbestos Wick Packing
Made in following sizes: ¼, ⅜, ½ inch. **State size.** Number of feet in pound, 5 to 7. Shipping weight, per pound, 18 ounces.
84 C 7796—Per pound........................**75¢**

Square Jute Packing

Long fiber jute. Well lubricated. Used in pumps and hydraulic elevators. Sizes, ¼, ⅜, ½, ⅝ inches. Number of feet in a pound, 36, 18, 10 and 4. **State size.** Shipping weight, per pound, 18 ounces.
84 C 7780—Per pound........................**35¢**



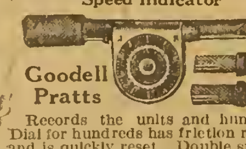
Hemp Packing
Made of a high quality of hemp. Used in stuffing box heads or in pumps. Size, 1 inch. Four feet to pound.
84 C 7794—Per pound....**33¢**

Cotton Waste

Colored. No. 2 grade.
84 C 7800— 5-pound package **$ .65**
84 C 7800—10-pound package **1.25**
White. No. 1 grade.
84 C 7801— 5-pound package **$ .80**
84 C 7801—10-pound package **1.55**

Packing Tools
Nickel plated tempered steel. Will go in any valve rod, pump or engine stuffing box. Assorted lengths, 6¾ to 18 inches. Shipping weight, per set, of 6 tools 2½ pounds. **84 C 7765**—Per set of 6 tools **$1.95**

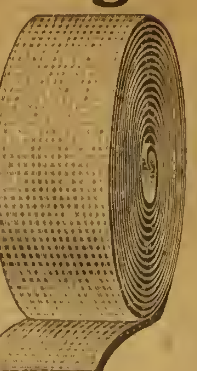
Speed indicator



Goodell Pratts

Records the units and hundreds. Dial for hundreds has friction ratchet and is quickly reset. Double spindle. Handle slips on either end for right or left hand shafts. Steel nickel plated. Two rubber tips. Ship. wt., 12 oz.
84 C 1862............**$2.45**

Rubber Belting



5¢ Standard Grade Belting
Per Foot.

Our Standard Grade Rubber Belting is of good quality and will give entirely satisfactory service on light farm machinery, such as gas engines, cream separators, washing machines, etc. This belting is not suitable for endless Thresher Belts.

84 C 7680—2-ply. Ship. weight, foot, 5 to 9 ounces.

Width Inches	Per Foot
1	5 ¢
1¼	6½¢
1½	8 ¢
2	10 ¢
2½	12 ¢
3	14 ¢
3½	17 ¢
4	18 ¢

84 C 7681 3-ply. Ship. weight, foot, 8 to 18 ounces.

Width Inches	Per Foot
1½	9 ¢
2	11½¢
2½	14 ¢
3	16 ¢
3½	19 ¢
4	20 ¢
5	25 ¢
6	29 ¢

84 C 7682—4-ply. Ship. weight, foot, 10 to 30 ounces.

Width Inches	Per Foot
3	19¢
3½	23¢
4	24¢
4½	27¢
5	30¢
6	35¢
7	41¢
8	44¢
9	49¢
10	55¢
12	66¢

Actual Thickness of Rubber Belting

Extra Standard Grade Rubber Belting

6¢ 2-Ply Per Foot

Of strong cotton duck with fine rubber friction between each ply or layer. Will give long and reliable wear. Our Extra Standard Belt is suitable for all kinds of hard service and represents very good value at Ward's low price.

84C7683 2-ply. Ship. wt., foot, 5 to 10 ounces.

Width Inches	Price Per Foot
1	6¢
1¼	7¢
1½	9¢
2	12¢
2½	14¢
3	16¢
3½	18¢
4	19¢

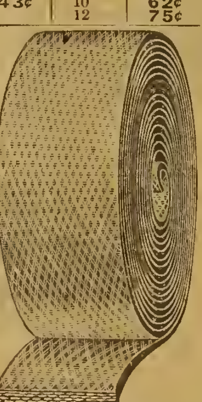
84C7684 3-ply. Ship. wt., foot, 8 to 20 ounces.

Width Inches	Price Per Foot
1½	10¢
2	13¢
2½	16¢
3	18¢
3½	21¢
4	23¢
5	29¢
6	33¢
7	39¢
8	43¢

84 C 7685 4-ply. Ship. wt., foot, 12 to 36 ounces.

Width Inches	Price Per Foot
3	21¢
3½	24¢
4	27¢
4½	30¢
5	33¢
6	39¢
7	46¢
8	49¢
9	56¢
10	62¢
12	75¢

Red Friction Surface Rubber Belting



Our "Red-Man" brand is the very finest grade of rubber belting. Use this belt for heavy duty, high speeds and on small diameter pulleys. It will get longer, better and more economical service than any other kind of belting. The belting is red in color to distinguish it from ordinary belting and is sold with our full guarantee, to give entire satisfaction under the most severe usage. It is constructed of a tough and closely woven cotton duck, with a high grade friction between the plies and a friction surface which takes hold of the pulleys with a full contact from edge to edge. The friction compound is forced into the fabric under great pressure, the plies will not separate, and all the undesirable stretch is taken out of the belt.

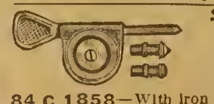
84 C 7694—Four-ply

Inches	Ship. Wt. Ft., Oz.	Per Foot	Width Inches	Ship. Wt. Ft., Oz.	Per Foot
2	5	19¢	6	10	52¢
3	6	28¢	7	12	62¢
4	7	35¢	8	14	66¢
5	8	44¢	10	16	83¢

How to Order Special Endless Belts

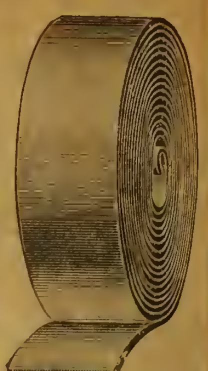
Include the price of seven extra feet of the belt for the cost of making the lap. For example, if you want an endless belt 100 feet long, pay for 107 feet. Mention the length of belt wanted **after being made endless.** Order by the following numbers:

384 C 7687—Endless Rubber Belts. Made in Extra Standard grade and "Red-Man" brands only.
Shipped from Factory in Illinois
Endless Canvas Belts. Made in four or six-ply. (See 184 C 7700 and 184 C 7702 for stock lengths.)
Belt Shipped from Factory in Northern Ohio
Allow ten days for filling order



Starrett's Speed Indicator
Frictionless bearings. Two rows of figures reading right or left. Nickel plated iron. Rubber tips. Size, 5x1½ in. Ship. wt., 10 ounces.
84 C 1858—With iron handle............**$1.00**
84 C 1859—With rubber handle.......**1.48**

8¢ Leather Durable Belting
Per Foot



Standard Grade is of medium quality and will give satisfaction. For ordinary mill, factory and farm machinery.

Extra Standard Grade is made from select, short lap, oak tanned stock, cut from the center of the hide. Recommended for thresher belts, high-speed pulleys, and for hard factory or mill usage.

If belts are wanted endless, state actual length of belt wanted after spliced, and allow price of 3 feet of belt extra for lap and labor of splicing.

Notice—In very damp or wet places, use rubber or stitched canvas belting.

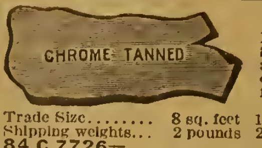
84 C 7704—Standard Grade. Ship. wt., per foot, 5 to 10 ounces.

Width Inches	Per Foot	Width Inches	Per Foot
1	8¢	2¼	20¢
1¼	11¢	2½	22¢
1½	13¢	3	27¢
1¾	15¢	3½	31¢
2	18¢	4	36¢

84 C 7705—Extra Standard Grade. Ship. wt., per ft, 5 to 18 ounces.

Width Inches	Per Foot	Width In.	Per Foot
1	10¢	3½	39¢
1¼	14¢	4	45¢
1½	17¢	4½	50¢
1¾	19¢	5	55¢
2	22¢	5½	61¢
2¼	25¢	6	66¢
2½	28¢	7	76¢
3	33¢	8	89¢

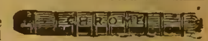
Belt Lacing and Dressing



Chrome Side Lace
High quality leather. Extra strong and durable. Soft and pliable. Not affected by heat, water or acid. Can supply only full sides.
State size wanted.

Trade Size........	8 sq. feet	10 sq. feet	12 sq. feet
Shipping weights...	2 pounds	2½ pounds	3 pounds
84 C 7726— Per Side.........	**$1.92**	**$2.40**	**$2.88**

Chrome Cut Lace



Same quality as side lace leather 84 C 7726. In full bundles of 50 lineal feet. Shipping weights, 6 to 16 ounces.
84 C 7724—State size.

Width..........................	¼ inch	5/16 inch
Per bundle.....................	36¢	56¢
Width..........................	⅜ inch	½ inch
Per bundle.....................	46¢	72¢
Width..........................	⅝ inch	¾ inch
Per bundle.....................	93¢	$1.20

84 C 7725—Assorted package of 50 feet. Per bundle ....**52¢**

Belt Lace Cutter
Cast iron frame. Steel knife. For cutting leather into strips. Adjustable to various widths. Shipping weight, 6 ounces.
84 C 7730..........................**38¢**

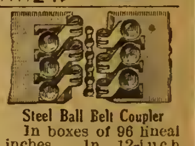
Wire Belt Lace

Soft, strong composition wire. In 50-foot coils. Shipping weight, per coil, 6 ounces.
84 C 7731—Size 1. For belts 1 to 6 inches. Per coil..................**22¢**
84 C 7732—Size 2. For belts 6 to 20 inches. Per coil..................**24¢**

(In Use)

Steel Belt Lacing
Strong and quickly clinched; 100 lineal inches in box. Assorted lengths, 1¼ to 2¾ inches. Shipping weights, 2 to 4 pounds.

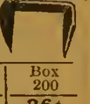
Size	For Belts Wide	Size Ply	84 C 7734
1	¾ in.	Single	$ .78
11	⅞ in.	3-ply	.90
12	1¼ in.	4-ply	1.10
14	1¾ in.	5-ply	1.98



Steel Ball Belt Coupler
In boxes of 96 lineal inches. In 12-inch pieces, easily cut. Shipping weights, 3 to 3½ pounds.

Size	For Belt Thick.	84 C 7738
A	3/16 inch	$ .90
B	¼ inch	1.08
C	5/16 inch	1.35

Steel Clinch Belt Hooks



Made of best annealed steel wire. Will not break in clinching. For leather, rubber or canvas belting. Boxes contain 200 hooks.

Article Number	Prong Length	Length Inches	Shipping Weight	Box 200
84 C 7750	½ in.	¾	7 oz.	26¢
84 C 7751	⅝ in.	¾	10 oz.	26¢
84 C 7752	⅝ in.	1	1 lb.	26¢
84 C 7753	¾ in.	1	1½ lb.	26¢

Belt Dressing

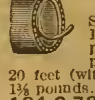
For all kinds of belts. Insures better traction, prevents slipping. Applied to the moving belt. In 1-pound sticks. Shipping weight, 18 ounces.
84 C 7710—Per stick..........................**22¢**

Liquid Belt Dressing
Makes belting soft and pliable and prevents slipping. Shipping weight, per quart can, 3 pounds.
84 C 7712 For leather belts. 1-qt. can **78¢**
84 C 7713—For canvas belts. 1-quart can......**78¢**
84 C 7714—For rubber belts. Shipping weight, 3 pounds. 1-quart can...**78¢**

Leather Cement

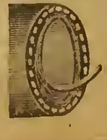
For repairing leather belts and making endless belts. In one-pound can with directions. Shipping weight, 18 ounces.
84 C 7745........**62¢**

See Page 597 for Bolt Repair Assortments. Indispensable for emergencies which arise during threshing season.



Lakeside Suction Hose
Waterproof, braided colored cotton jacket. Steel wire insertion. Smooth rubber lining. Inside diameter, 2 inches. Raised ends to take pipe or couplings. Used with our thresher tank pump. Fine for tank wagons. Lengths, 10, 15, 20 feet (without couplings). Shipping weight, per foot, 1⅜ pounds.
184 C 7892—Per foot.......... ......**62¢**

Rubber Water Hose
Very serviceable. Size, 1-inch, 5-ply. Brass couplings with each 50-foot length. Shipping weight, 50 feet, 22 pounds.
184 C 7870—Per foot.. ....**18¢**



Rubber Suction Hose
High grade, with steel wire insertion. Smooth lining. Inside diameter, 2 inches. Raised ends to take coupling or iron pipe. Lengths, 10, 15, 20 feet. Without couplings. Shipping weight, per foot, 1 pound.
184 C 7890—Per foot...... ...**42¢**

See Page 642 for our Sattley Gasoline and Kerosene Engines

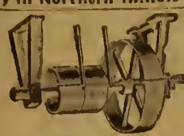
Cold Rolled Steel Shafting

Every bar straight and true to size U. S. Standard. Prices are for shafts 5 feet to 18 feet long. Less than 5 feet, we charge 35 cents a cut for cutting. May be cut any length up to 18 feet and will be shipped about 5 days after order is received.

Size....	1 in.	1¼ in.	1½ in.
Ship. wt., per foot..	2¾ lbs.	4¼ lbs.	6 lbs.
284 C 7625—Per foot	12¢	20¢	24¢

Shipped from Factory in Northern Illinois

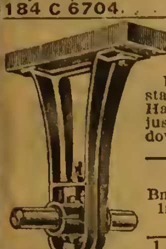
Counter-shafts



Strong, well balanced, nicely finished. Steel shafts, iron pulleys. **State size wanted.**

Size	1	2	3	4
Drive pulley, in.....	8x2	9x2¼	10x3½	12x4
Other pulleys, in....	4x2	4x2	5x3	5x3
Drop of hanger, in..	6	6	8	8
Length, shaft, in...	18	21	24	26
Diam. shaft, in.....	⅞	⅞	1	1⅛
Ship. wt., lbs...	40	55	60	70
184 C 6704...	$5.85	$7.70	$9.40	$12.35

Ball and Socket Hanger



Double braced, full weight, standard design, great strength. Have babbitted boxes. Adjustable. May be turned upside down and used as floor stands.

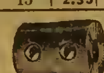
Bore In.	84 C 7610 8-In. drop Ship. Wt. Lbs.	Price Each	84 C 7611 12-In. drop Ship. Wt. Lbs.	Price Each
1	13	$1.90	20	$2.20
1¼	14	2.10	21	2.46
1½	15	2.35	22	2.75

Post Hanger

Split journal post box well babbitted. Adjustable by bolt slots.
84 C 7613

Shaft In.	Ship. Wt.	Each
1	3 lbs.	$1.40
1¼	4 lbs.	1.60
1½	5 lbs.	2.00

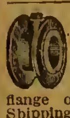
Sleeve Coupling



For joining shafting with two set screws in sockets, not projecting.

Shaft In.	Wt., Lbs.	84 C 7619 Each
1	3¼	$1.75
1¼	5½	2.00
1½	8	2.25

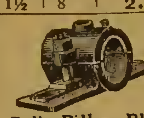
Shaft Collar



Cast iron with Howe set screw on center, protected by flange on each side. Shipping weight, 1 and 1½ pounds.

For Shaft in....	1	1¼	1½
84 C 7617	20¢	26¢	30¢

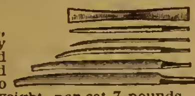
Split Pillow Block



Cast iron and babbitted, with base bolt adjusting slots. Shipping weight, 3 to 5½ pounds.

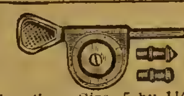
Shafts, in..	1	1¼	1½
84 C 7615	55¢	65¢	80¢

Scraping Tools



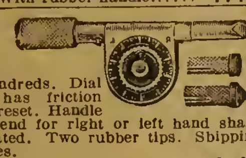
For valves, bearings, etc. Tool steel, carefully forged, tempered and polished. In hardwood case. Lengths, 10½ to 17¼ inches. Shipping weight, per set 7 pounds.
84 C 7767—Set of 6 tools..........**$4.15**

Starrett's No. 104 Speed Indicator



Frictionless bearing. Two rows of figures reading right or left. Nickel plated iron. Rubber tips. Size, 5 by 1½ inches. Shipping weight, 10 ounces.
84 C 1858—With iron handle....... **$1.00**
84 C 1859—With rubber handle...... **1.48**

Goodell-Pratt Speed Indicator



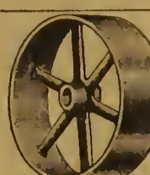
Units and hundreds. Dial for hundreds has friction ratchet, quickly reset. Handle slips on either end for right or left hand shaft. Steel, nickel plated. Two rubber tips. Shipping weight, 12 ounces.
84 C 1862........................**$2.45**

Line Shaft Outfits Complete $18.95

Our Universal Line Shaft Outfit will transmit 2½ horsepower and will drive your cream separator, churn, pump jack and washing machine independent of each other, or all together, at the proper rates of speed, without changing the speed of your engine. With this speed governing line shaft outfit you may run several light machines at various speeds from the same engine or motor. A turn of the hand wheel will stop the shaft while the engine continues running. A turn of the hand wheel in the reverse direction will start the shaft and it will pick up speed gradually. Each outfit consists of shaft, 1 inch in diameter, speed governor with 9 by 6 drive pulley; one 4 by 3; one 6 by 2½ and one 8 by 2½-inch pulley; all mounted on a substantial 2-inch plank and supported by three hangers. Grease cups provide lubrication. Shaft may be driven at a speed of from 200 to 300 revolutions per minute. Speed of pulleys may be varied from 50 to 300 revolutions per minute. Belt not included. Shipping weights, 110 to 125 pounds.

284 C 7600—6-foot Line Shaft Outfit.......................**$18.95**
284 C 7601—8-foot Line Shaft Outfit....................... **19.00**
284 C 7602—12-foot Line Shaft Outfit...................... **27.95**

Shipped from Factory in Iowa



Crowned Face Iron Pulleys

Full finished, single Belt Pulleys. With key seat or set screw. **State which,** also give diameter, face, and bore. Pulleys smaller than shown are made to order, cost more, and cannot be returned. **Shipped from Factory in Northern Ill.**

384 C 7634

Diam. In.	Face In.	Ship. Wt.	Price Each
6	3	6 lbs.	$1.65
6	4	8 lbs.	1.85
6	6	11 lbs.	2.35
8	3	8 lbs.	1.95
8	4	10 lbs.	2.20
8	6	16 lbs.	2.79
10	4	15 lbs.	2.57
10	6	22 lbs.	3.23
10	8	26 lbs.	4.00
12	4	17 lbs.	2.98
12	6	23 lbs.	3.75
12	8	32 lbs.	4.63
14	6	30 lbs.	4.20
14	8	45 lbs.	5.28
16	6	37 lbs.	4.77
16	8	48 lbs.	6.00
18	6	42 lbs.	5.43
18	8	50 lbs.	6.83
20	6	42 lbs.	6.24
20	8	60 lbs.	7.67

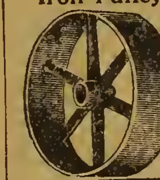
Wood Split Pulleys

Made of select, straight grained, kiln-dried hardwood. Glued and nailed. Bushing turned inside and out. Up to 10-inch have no spokes. **State diameter, face and bore.**
Shipped from Factory in Southern Michigan

284 C 7630

Diam. In.	Face In.	Ship. Wt.	Price Each
3	3	½ lb.	$1.64
3	4	¾ lb.	1.70
3	6	1 lb.	1.95
4	3	¾ lb.	1.64
4	4	1 lb.	1.70
4	6	1½ lbs.	1.95
6	3	2½ lbs.	1.70
6	4	3 lbs.	1.75
6	6	4½ lbs.	2.06
8	4	5 lbs.	1.75
8	6	7 lbs.	2.15
10	4	8 lbs.	2.00
10	6	12 lbs.	2.40
12	4	6 lbs.	2.34
12	6	10 lbs.	2.90
14	6	11 lbs.	3.34
16	6	16 lbs.	3.80
18	6	18 lbs.	4.25
20	6	19 lbs.	4.80

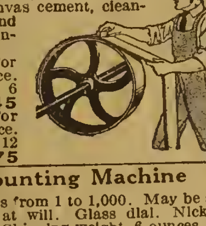
Plain Face Iron Pulley



Cast iron. Straight face. For 1¼-inch shaft only. With set screw. **State size and bore.**

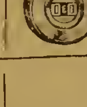
Size In.	Ship. Wt.	184 C 7632 Each
3x4	5 lbs.	$1.10
4x4	6 lbs.	1.30
6x4	9½ lbs.	1.69
8x4	11 lbs.	1.76
10x4	15 lbs.	2.06
12x2½	16 lbs.	2.10
12x4	18 lbs.	2.38
14x4	23 lbs.	2.73
16x4½	28 lbs.	3.40

Canvas Pulley Covering



May be applied to any pulley. Prevents slipping. Canvas cement, cleaning brush, scraper and brush for applying included.
84 C 7760 — For 10-square foot surface. Shipping weight, 6 pounds.......**$3.45**
84 C 7761 — For 20-square foot surface. Shipping weight, 12 pounds.......**$6.75**

Counting Machine



Tallies from 1 to 1,000. May be set at zero at will. Glass dial. Nickel-plated. Shipping weight, 6 ounces.
84 C 1855..............**$3.75**

Gas Engine Lubricators

Brass body, wood wheels, sight feed. Feed is regulated by a snap lever which may be opened or closed without disturbing rate of flow. Pressure regulated by valve. The ¼ and ½ pint sizes have no gauge glass. Shipping weights, 3 to 5 pounds.

Size	Height	Pipe	81 C 5516
¼ pint	8 in.	⅜ in.	$4.98
⅓ pint	8¾ in.	⅜ in.	5.70
½ pint	9½ in.	½ in.	6.35
1 pint	10½ in.	½ in.	7.25

Ajax Sight-Feed Lubricator

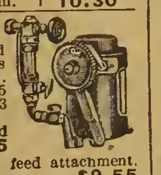
For stationary, traction and portable engines, single connection. Requires only one tapping in steam pipe, easily attached to either a horizontal or vertical pipe or in steam chest of engine.

Glass sight feed. Brass body. Thoroughly tested. All sizes are fitted for ½-inch (pipe size) connections. Shipping weights, 7 to 12 pounds.

81 C 5514

Capacity	Height	For Cylinder Diameter	Price Each
⅓ pint	13 in.	Under 10 in.	$ 7.50
½ pint	13½ in.	10 to 12 in.	8.35
1 pint	16 in.	12 to 18 in.	10.30

Force Feed Lubricator



Designed for steam engine and similar use. Iron body with brass sight feed; ¼-inch connections. Height, 9⅝ inches. Diameter, 5 inches. Shipping weight, 23 pounds.
481 C 5518—With sight feed as shown.............**$14.25**
481 C 5519—Without sight feed attachment. **$9.55**

Chime Steam Whistle

More penetrating than common whistle. Three distinct tones. Solid brass with brass valve. Shipping weights, 2½ to 10½ pounds.

Diam. Bell	Size Pipe	Height	81 C 5543 Each
2 in.	½ in.	8½ in.	$ 5.90
3 in.	¾ in.	11 in.	9.25
4 in.	1 in.	13¼ in.	15.15

One-Tone Steam Whistle

Solid brass. Brass valve. Shipping weights, 1½ to 11 pounds.

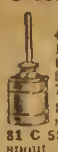
Diam. Bell	Size Pipe	Height Inches	81 C 5540 Each
1 in.	¼ in.	6½	$1.95
1¼ in.	⅜ in.	6¾	2.30
1½ in.	⅜ in.	8¼	2.50
2 in.	¾ in.	8¼	3.45
2½ in.	¾ in.	11	4.10
3 in.	1 in.	12½	5.35

Pop Safety Valve

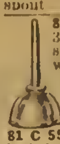
High pressure valves. Polished brass. Carefully tested. Set to blow off at 100 lbs.

Pipe	Horse-power	Shipping Weight	Art. No. 81 C 5545
¾ in.	Under 5	1½ lbs.	$3.60
1 in.	5 to 10	1¾ lbs.	4.45
1¼ in.	10 to 20	3 lbs.	5.35
1½ in.	20 to 30	4¼ lbs.	6.70
2 in.	30 to 40	7 lbs.	10.25

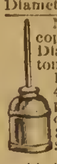
Oilers 9¢



Bright tin with 4-inch spout. Diameter at bottom, 3 inches. Shipping weight, 7 ounces.
81 C 5530—Bent spout...... **9¢**
81 C 5531 — Straight spout ...... **9¢**

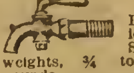


81 C 5528—With 3-inch straight spout. Shipping weight, 7 ounces.
Diameter 3½ inches.. **16¢**
4 inches. **28¢**
81 C 5529—With 9-inch bent spout.
Diameter 3½ inches. ....**20¢**
Diameter 4 inches **32¢**



Made of steel, copper plated. Diameter at bottom, 3 inches. Length of spout, 4 inches. Shipping weight, 7 ounces.
81 C 5533 — Straight spout. ......**20¢**
81 C 5535 — Bent spout..........**20¢**

Oil Faucet



Iron. Brass lever. Ship. weights, ¾ to 2½ pounds.

Size	81 C 5480
½ in.	$ .75
⅝ in.	.90
1 in.	1.60

Polished brass. With sight feed and snap levers. Adapted for gas engines. Height, 5½ to 6¾ inches. Shipping weight, 10 to 22 ounces.

81 C 5505

Out-side Dia. In.	Pipe Size	Cap-acity Oz.	Price Each
1⅞	¼	1½	$ .90
2⅛	⅜	2½	.95
2⅜	⅜	4	1.05
2⅝	⅜	5	1.25

Brass Lubricator

Polished cast brass. Shipping weight, 1 to 3 pounds.

81 C 5511

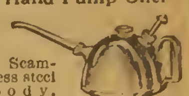
Dia. Body In.	Pipe Size	Height Inches	Price Each
1½	⅜	5¼	$1.15
1¼	⅜	5½	1.25
2	½	6⅜	1.40
2½	½	7¼	1.55
3	¾	8	1.80

Force Feed Oilers 75¢

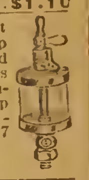
Positive feed to any position. Heavy tin. Bent spout.
81 C 5525 — Size, 1 pint 9-inch spout. Shipping weight, 8 ounces **75¢**
81 C 5526—Size, 1 quart; 16-inch spout. Shipping weight, 12 ounces **$1.00**

For machinists, engineers, and automobile drivers. All the mechanism is in the spout, reserving all of the can proper for oil. Made of steel, gunmetal finish. Size, ½-pint. Diameter, 3½ inches. Height, 7¾ inches. Shipping weight, 8 ounces.
81 C 5522.. **65¢**

Hand Pump Oiler



Seamless steel body. Delivers oil in any position; 9-inch spout.
81 C 5521 — ½ pint, diameter, 3¾ inches. Shipping weight, 8 ounces .... **93¢**
81 C 5523 — 1 pint, diameter, 4¼ inches. Shipping weight, 12 ounces. **$1.10**

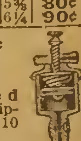


With sight feed and snap lever. Polished brass, glass body. Feed regulated by top lever. Shipping weight, 7 to 20 ounces.

81 C 5502

Size	Dia. In.	Pipe Size	Ht. In.	Price Each
0	1⅜	⅛	4¼	65¢
1	1⅜	¼	5	69¢
1½	1¾	¼	5	75¢
2	2	⅜	5⅜	80¢
3	2⅜	⅜	6¼	90¢

Automatic Grease Cup

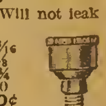


Polished cast brass. Shipping weight, 10 to 22 ounces.

81 C 5498

Size	Dia. In.	Pipe Size	Ht. In.	Price Each
00	1	⅛	4	$.75
0	1¼	¼	4¼	.95
1	1½	¼	4¼	1.20
2	2	⅜	4¾	1.65

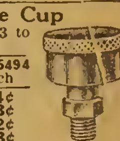
Steel Grease Cup



Iron body and cap. Screw feed. Will not leak or break. Knurled rim at top.

Outside diam., in....	1½	1¾	2³⁄₁₆
Pipe size, in.........	¼	¼	⅜
Height, inches......	2⅛	2¼	2¾
Ship. Wt., oz.......	4	7	10
81 C 5492.......	6¢	8¢	10¢

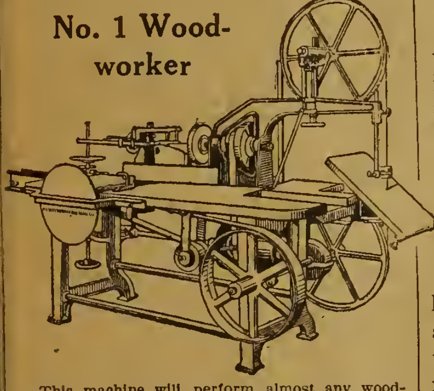
Solid Brass Grease Cup



Screw feed. Shipping Weight, 3 to 10 ounces.

Size	Pipe Size	Inside Diam.	Total height	81 C 5494 Each
00	⅛	1 in.	1¾	14¢
0	¼	1¼ in.	2⅛	18¢
1	¼	1½ in.	2½	22¢
2	⅜	2 in.	3	33¢

No. 1 Woodworker



This machine will perform almost any woodworking operation, and is invaluable to the pattern maker, blacksmith, wagon maker, or garage man doing body work. It has a rip and cut off saw, band saw, planer, jointer, shaper or edge molder, lathe, borer, tenoner and drill.

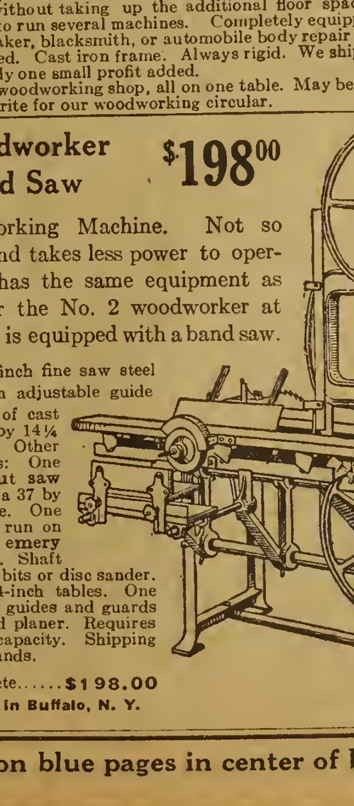
Overall size of table, 8 feet 7 inches by 4 feet 4 inches. Height to table, 36 inches. Total length, with carriage pulled out, 12 feet. Requires only four to five H. P. to operate. Machine is made of the best materials, first class workmanship. Will give years of service. **12-inch rip and cut off saw** has adjustable gauge. Band Saw has 29½ by 30-inch adjustable tilting cast iron table, 10-inch upper bearing, clutch on lower wheel, ½-inch saw. **Lathe** has 4-step cone pulleys, belt, tool rest, spur center and face plate which will hold drill. Capacity of lathe, 40 inches long, 20 inches in diameter. **Planer** has 5 and 10-inch heads and table adjustable to both sides of head. With mandrel raised to vertical, a shaper is obtained. One pair of chamfering, one pair of rounding bits included. Planer, jointer, shaper and saw mandrel may be run horizontally or vertically. Mandrel controlled by clutch on large pulley in either position. Shipping weight, complete, 2,500 pounds
284 C 6725—Complete **$450.00**
Shipped from Factory in Buffalo, N. Y.

Woodworking Machines — Highest Quality Priced Low

One machine for a very reasonable price which will do all the work of several different Woodworking Machines without taking up the additional floor space and without the unnecessary waste of power to run several machines. Completely equipped to do all the woodworking that a pattern maker, blacksmith, or automobile body repair man, or wagon maker needs. Heavily constructed. Cast iron frame. Always rigid. We ship direct from the factory at Buffalo, N. Y., with only one small profit added.

A complete, and useful woodworking shop, all on one table. May be operated on 3 to 5 H. P. For further information write for our woodworking circular.

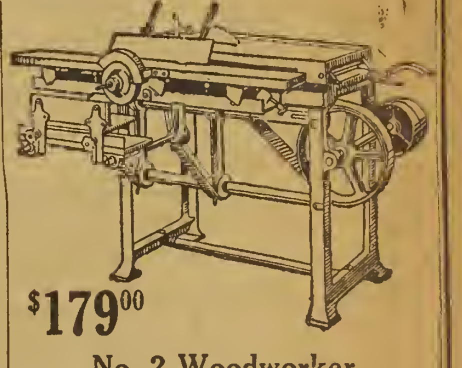
No. 2 Woodworker with Band Saw $198.00



The ideal Woodworking Machine. Not so heavy as the No. 1 and takes less power to operate. This machine has the same equipment as that described under the No. 2 woodworker at right; and in addition is equipped with a band saw.

The band saw is of ⅜-inch fine saw steel and is furnished with an adjustable guide and table. The table is of cast iron, well finished, 17½ by 14¼ inches and is adjustable. Other equipment is as follows: One 10-inch **rip and crosscut saw** run at 3,000 R.P.M. and a 37 by 16-inch adjustable table. One 6 by 3-inch **jointer** to run on saw shaft. One 8-inch **emery wheel**, to fit same shaft. Shaft also holds straight shank bits or disc sander. Two adjustable 6 by 24-inch tables. One 6-inch planer head. Belt guides and guards for saw, emery wheel and planer. Requires 3 H.P. to operate at capacity. Shipping weight, complete, 673 pounds.

284 C 6726—Complete......**$198.00**
Shipped from Factory in Buffalo, N. Y.



$179.00 No. 2 Woodworker without Band Saw

This machine is much lighter than the No. 1 machine and is not equipped to perform so many operations. Has the equipment which is needed for everyday work, an efficient rip and crosscut saw, a jointer, a drill and sander, emery wheel and planer.

The saw table is 37 by 16 inches, of heavy ribbed cast iron, adjustable in height. Diameter of saw, 10 inches, runs at 3,000 R.P.M. **Emery Wheel** is 8 by ¾ inch. Has a guard. **Jointer** is on the same shaft as the saw, and is 6 inches long and 3 inches in diameter. Adjustable tables 6 by 24 inches on each side. Emery wheel may be attached on same shaft outside the bearings. Shaft end will hold straight shank **bits or disc sander.** Guide and guard for drilling included. Also 6-inch **planer head.**

Requires 3 H.P. to operate at capacity. Shipping weight, complete, 650 pounds.

284 C 6727—Complete.........**$179.00**
Shipped from Factory in Buffalo, N. Y.

For Lubricating Oils, see Index on blue pages in center of book

White Enameled Lavatories

The Bradford

Genuine White Porcelain Enameled, Cast Iron Corner Lavatory. Length on sides, 16½ inches. Back, 6 inches high. Oval bowl, 11 by 14 inches. Recommended for small bathrooms.

Lavatory only with chain stay, cock holders and cast iron concealed wall hangers. Shipping weight, 75 pounds.
281 C 6572 .... **$6.55**

Lavatory complete with nickel-plated brass trimmings as shown. Trap for lead pipe. (See 6611 below.) Shipping weight, 80 pounds.
281 C 6578 Pipes to wall **$11.15**
281 C 6573—Pipes to floor **$11.40**

Shipped from Chicago or Western Pennsylvania

The Dudley

Genuine White Porcelain Enameled, Cast Iron Apron Lavatory. Size, 18 by 21 inches. Back, 8 inches high. Oval bowl, 11 by 14 inches.
Attractive design, sanitary and neat.

Lavatory only with chain stay, cock holders and cast iron concealed wall hangers. Shipping weight, 110 pounds.
281 C 6554 .... **$7.95**

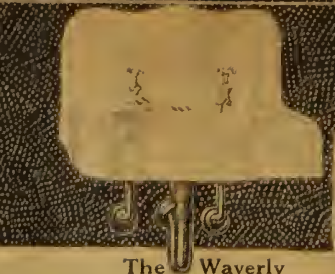
Lavatory complete with nickel-plated brass trimmings as shown. Trap for lead pipe. (For iron pipe connection see 81 C 6614 below.) Ship. wt, 120 lbs.
281 C 6559—Pipes to wall.. **$12.55**
281 C 6556—Pipes to floor. **12.80**

The Dinsmore

Genuine White Porcelain Enameled, Cast Iron Apron Corner Lavatory. Length of sides, 16½ inches. Back, 6 inches high. Oval bowl, 11 by 14 inches.
Popular for small bathrooms.

Lavatory only with chain stay, cock holders and cast iron concealed wall hangers. Shipping weight, 95 pounds
281 C 6566 .... **$8.75**

Lavatory complete with nickel-plated brass trimmings as shown. Trap for lead pipe. (For iron pipe connection see 81 C 6614 below.) Ship. wt., 100 lbs.
281 C 6581—Pipes to wall.. **$13.35**
281 C 6568—Pipes to floor. **13.60**



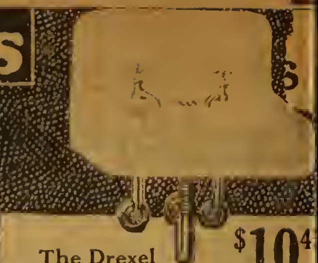
The Waverly

Genuine White Porcelain Enameled, Cast Iron Apron Lavatory. Size, 18 by 24 inches. Back, 10 inches high. Oval bowl, 12 by 15 inches.
Ornamental design, high grade.

Lavatory only with chain stay, cock holders and cast iron concealed wall hangers. Shipping weight, 120 pounds.
181 C 6562 .... **$10.45**

Lavatory complete with nickel-plated brass trimmings as shown. Trap for lead pipe. (For iron pipe connection see 81 C 6614 below.). Shipping weight, 130 lbs.
181 C 6563—Pipe to wall... **$15.05**
181 C 6564—Pipe to floor.. **15.30**

Shipped from Chicago or Factory in Western Pennsylvania



The Drexel $10.4

Genuine White Porcelain Ename[led], Cast Iron Square Apron Lavat[ory]. Size, 18 by 24 inches. Back, 10½ [in]ches high. Oval bowl, 12 by 15 inc[hes].
Plain design, practical, sanitary.

Lavatory only with chain stay, c[ock] holders and cast iron concealed hang[ers]. Shipping weight, 110 pounds.
281 C 6558 .... **$10.**

Lavatory complete with nic[kel-]plated brass trimmings as sho[wn]. Trap for lead pipe. (For iron pipe c[on]nection see 81 C 6614 below). Shipp[ing] weight, 120 pounds.
281 C 6560 Pipes to wall **$15.**
281 C 6557—Pipes to floor **15.**

Shipped from Chicago or West[ern] Pennsylvania

The Paramount

An Unusually Attractive Addition To Your Bath-room

$34.95

Genuine White Porcelain Enameled, Cast Iron Pedestal Lavatory made in two pieces. Top slab and bowl, one piece. Oval top, size, 22 by 33 inches. Rim, 5 inches wide. Oval bowl, 13 by 18 inches.

Lavatory only with cock holders. Shipping weight, 220 pounds.
281 C 6577 .... **$34.95**

Lavatory complete with latest ideal lifting waste, white china indexed compression faucets, supply pipes and trap for lead pipe connection (For iron pipe connection see 81 C 6614 below.) Shipping weight, 230 pounds.
281 C 6579—Pipes to wall **$43.90**
281 C 6580—Pipes to floor **44.15**

All enamel ware is shipped from Chicago or Western Pennsylvania, whichever is nearer to you. This saves you freight.

The Sheffield and Suffolk are the same except for sizes.

The Sheffield / The Suffolk

Genuine White Porcelain Enameled, Cast Iron Roll Rim Lavatories. Back, 8 inches high. Oval bowls.

Sheffield	Suffolk
Top, 16 by 19 in.	Top, 18 by 21 in.
Bowl, 10½ by 13 in.	Bowl, 11 by 14 in.

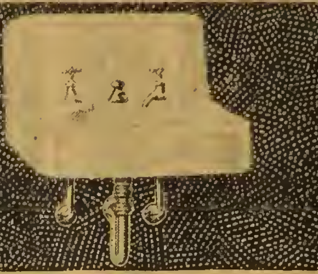
Lavatory only with chain stay, cock holders and cast iron concealed hangers. Shipping weights, 75 and 80 pounds.

Sheffield	Suffolk
281 C 6540 **$5.50**	**281 C 6544** **$6.95**

Lavatory complete with nickel-plated brass trimmings as shown. Trap for lead pipe. (For iron pipe connection see 81 C 6614 below.)

Sheffield	Suffolk
Ship. wt., 85 lbs.	Ship. wt., 90 lbs.
281 C 6541—Pipes to wall... **$10.10**	**281 C 6545**—Pipes to wall... **$11.55**
231 C 6542—Pipes to floor.. **$10.35**	**281 C 6546**—Pipes to floor.. **$11.80**

We Save You Freight
Lavatories shipped from Western Pennsylvania, or direct from Chicago, whichever is nearer you.



The Kenmore

Genuine White Porcelain Enameled, Cast Iron Deep Apron Lavatory drilled for ideal waste. Size, 20 by 24 inches. Back, 12 in. high. Oval bowl, 12 by 15 in.
A better lavatory is not manufactured.

Lavatory only with cock holders and cast iron concealed wall hangers. Shipping weight, 110 pounds.
281 C 6595 .... **$12.75**

Lavatory complete with nickel-plated brass trimmings as shown including ideal waste. Trap for lead pipe. (For iron pipe connection see 81 C 6614 below.) Shipping weight, 120 pounds.
281 C 6599—Pipes to wall.. **$21.10**
281 C 6597—Pipes to floor. **21.25**

Lavatory Connections
All of the above lavatories with traps are fitted for 1¼-inch lead pipe connections. For connecting to iron pipe, you must order No. 81 C 6614, 1½ inch size iron pipe connection, price 50¢, shown at bottom of this column.

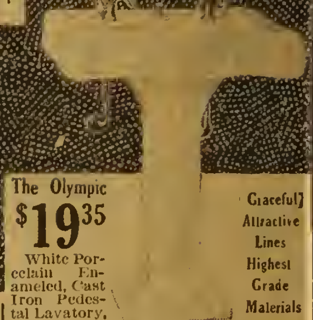
The Leland

Genuine White Porcelain Enameled, Cast Iron Deep Apron Lavatory, drilled for ideal waste. Size, 18 by 21 inches. Back, 8 in. high. Oval bowl, 11 by 14 in.

Lavatory only with cock holders and cast iron concealed wall hangers. Shipping weight, 110 pounds.
281 C 6561 .... **$9.45**

Lavatory complete with nickel-plated brass trimmings as shown including Ideal Waste. Trap for lead pipe. (For iron pipe connection see 81 C 6614 below.) Shipping weight, 120 pounds.
281 C 6567—Pipes to wall.. **$17.45**
281 C 6565—Pipes to floor. **17.70**

Low Prices — Small Freight Charge
By shipping directly from Chicago or from Western Pennsylvania, whichever is nearer to you, we make it possible for you to combine a saving in your freight with the saving you get by purchasing at our low prices.



The Olympic

$19.35

Graceful Attractive Lines Highest Grade Materials

White Porcelain Enameled, Cast Iron Pedestal Lavatory, made in two pieces, top slab and bowl one piece. Size of top, 20 by 24 inches. Oval bowl, 12 by 15 inches. Shipping weights, 200 to 240 pounds.

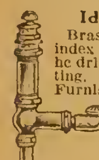
Lavatory only with cock holders.
281 C 6584 .... **$19.35**

Lavatory complete has latest lifting waste, white china indexed compression faucets, supply pipes and trap for lead pipe connection. (For iron pipe connection see 81 C 6614 below.) All trimmings nickel-plated.
281 C 6586 Pipes to wall.. **$30.70**
281 C 6585—Pipes to floor. **30.95**

Large size. Size of top, 22 by 27 inches. Oval bowl, 12 by 15 inches. Otherwise same as above.

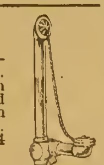
Lavatory only with cock holders. Shipping weight, 200 pounds.
281 C 6588 .... **$22.60**

Lavatory complete. Large size as shown above.
281 C 6587—Pipes to wall.. **$33.95**
281 C 6589—Pipes to floor **34.20**



Ideal Lavatory Waste

Brass, nickel-plated with china index top. The lavatory must be drilled for an Ideal waste fitting, or it cannot be used. Furnished for 1¼-inch lavatory trap connection. Shipping weight, 3 pounds.
81 C 6622— **$3.75**



Bath Trap Waste and Overflow

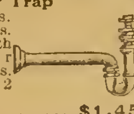
Cast brass trap, removable cleanout plug. Nickel-plated brass, with chain, rubber stopper and floor flange. For 1½-inch lead pipe connection. Shipping weight, 4 pounds.
81 C 6523 .. **$5.10**

Ideal Roman Lifting Bath Waste

Solid brass, nickel-plated. China waste index. May be attached to any of our regular bath tubs. Does away with rubber stopper. For 1½-inch lead pipe connection. Shipping weight, 7 pounds.
81 C 6522 .. **$8.50**

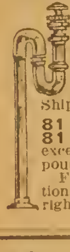
Combination Bath Waste and Overflow

To connect the overflow and waste openings to the waste pipe. Made of brass, nickel-plated. With rubber stopper, chain and floor flange. Will fit any standard bath tub. For 1½ inch lead pipe connection. Shipping weight, 3 pounds.
81 C 6520 ..... **$1.75**



Plain P Trap

For lavatories. Nickel-plated brass. Size 1¼ inch. With wall flanges. For lead pipe connections. Shipping weight, 2 pounds.
81 C 6613 .... **$1.45**
81 C 6612—Same as above, except vented **$2.20**



Long S Traps

For lavatories. Made of brass, nickel-plated. Size, 1¼ inches. Slip joint connections. Furnished complete with floor flanges. For lead pipe connections. Shipping weight, 3 pounds.
81 C 6611 .... **$1.80**
81 C 6610—Same as above except vented. Shipping weight, 4 pounds **$2.60**
For 1¼-inch iron pipe connection, see 81 C 6614, listed at the right.

Quick-Compression Bath Cock

Solid brass, nickel-plated. Quick closing quarter turn, china handles. Hose coupling for bath tubing. Fitted with ball offsets for ½-inch iron pipe. Shipping weight, 4¼ pounds.
81 C 5474 .... **$2.75**
81 C 5473—Same as above except with rough brass tail-piece couplings for ½-inch iron pipe **$2.45**

Fuller Double Bath Cock

Solid brass, nickel plated. Has nickel-plated jewel cup on top. Hose coupling for shower bath tubing. Shipping weight, 9 pounds.
81 C 5470—Fitted with rough brass tail pieces for ½-inch iron pipe **$2.55**
81 C 5471—Fitted with nickel-plated ball offsets for ½-inch supply pipes **$3.45**

Cock Hole Cover

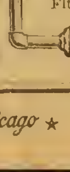
Used to cover hole in lavatories, kitchen sink backs, bath tubs and laundry tubs, when only one faucet is used. Brass nickel-plated with nut and bolt as shown. Shipping weight, 1 ounce.
81 C 5455 .... **22¢**

Bath Supply Pipes

For bath tubs. Solid brass, nickel-plated. Threaded for ½-inch iron pipe. Length, 20 inches. Complete with nickel-plated floor flanges. Shipping weight, per pair, 2 pounds.
81 C 6521 —
Per pair **$1.05**

Lavatory Floor Supply Pipes

Made of brass, nickel-plated. Size, ⅜-inch. With nickel-plated floor flanges and connection for basin cocks. For lead or iron pipe connection. Shipping weight, per pair, 4 pounds.
81 C 6618—Per pair **$1.15**



Lavatory Wall Supply Pipes

For wall connections. Nickel-plated brass with nickel-plated wall flanges and connections for basin cock. Size, ⅜-inch. Fitted for lead or iron pipe. Shipping weight, per pair, 4 pounds.
81 C 6619—Per pair **$1.25**

Nickel Plated Basin Cocks

Semi-low pattern. Nickel-plated on brass. White china indexed top. Fitted both for lead and iron pipe connection. Shipping weight, 1½ pounds.
81 C 5460 — Marked "Cold" .... **90¢**
81 C 5461 — Marked "Hot" .... **90¢**

81 C 5460

81 C 5475

High grade semi-low pattern. Nickel-plated on brass, four-ball handle. China index. Stuffing box. Fitted for both lead and iron pipe connection. Shipping weight, 1½ pounds.
81 C 5475—Indexed cold **$1.25**
81 C 5476—Indexed hot **1.25**

Fuller Basin Cocks

81 C 5465

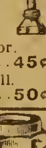
Made of brass, nickel plated. Semi-low pattern with round head. White indexed china handles. Fitted for both lead and iron pipe connection. Shipping weight, 1¾ pounds.

81 C 5462

81 C 5465—Right-hand. Marked "Cold" **$2.45**
81 C 5466—Left hand. Marked "Hot" **2.45**
Solid brass, nickel-plated. Fitted for both lead and iron pipe connection. Shipping weight, 2 pounds.
81 C 5462—Left-hand cock **$1.35**
81 C 5463—Right-hand cock **1.35**

Self-Closing Basin Cock

Solid brass, handsomely nickel-plated. A sure-closing faucet. Should always be used where water rate is high or water is pumped by hand. Fitted for lead and iron pipe connection. Shipping weight, 1¾ pounds.
81 C 5467 .... **$2.75**



Speedy Basin Connections

For connecting ¾-inch iron pipe to basin cocks. Very handy and neat. Can be cut to any length required. Simply remove tailpiece and nut from basin cock, slip nut, brass washer and rubber gasket end of connection as shown and screw up tight. Brass washer and rubber gasket included. Nut is always included with basin cock. Ship. wt., per pair, 4 ounces.
81 C 6615—Speedy connection for floor. Per pair .... **45¢**
81 C 6616—Speedy connection for wall. Per pair .... **50¢**

Slip Joint Coupling to Connect Brass Tubing to Iron Pipe

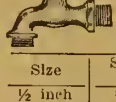
Brass, nickel-plated. For connecting lavatory **traps and bath waste** fixtures to iron pipe. Shipping weight, each, 4 ounces. **State size.**

For Iron Pipe Size	For Brass Tubing Size	81 C 6614 Each
1¼ inch	1¼ inch	50¢
1½ inch	1¼ inch	50¢
1¼ inch	1⅜ inch	50¢
1¼ inch	1½ inch	50¢

Compression Plain Bibbs

Polished brass. Threaded for iron pipe. With hexagon shoulder.

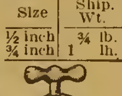
Size	Shipping Weight	81 C 5443 Price Each
½ inch	¾ pound	60¢
¾ inch	1 pound	75¢



Compression Hose Bibbs

Polished brass. Threaded for iron pipe. With hexagon shoulder.

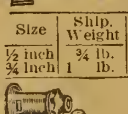
Size	Shipping Weight	81 C 5442 Each
½ inch	¾ pound	70¢
¾ inch	1 pound	85¢



Compression Bibbs with Flange

Polished brass or nickel-plated. Threaded for iron pipe.

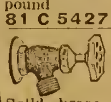
Size	Ship. Wt.	81 C 5444 Brass	81 C 5445 Nickeled
½ inch	¾ lb.	73¢	$ .82
¾ inch	1 lb.	90¢	1.00



Compression Hose Bibbs with Flange

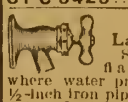
Polished brass or nickel-plated. Threaded for iron pipe.

Size	Ship. Weight	81 C 5456 Brass	81 C 5457 Nickeled
½ inch	¾ lb.	80¢	$ .90
¾ inch	1 lb.	98¢	1.10



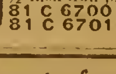
Compression Sill Cock with Loose Key

Solid brass, with flange. For ¾-inch iron pipe. Takes any garden hose. Rough nickel-plated finish. Shipping weight, 1 pound
81 C 5427 .... **80¢**



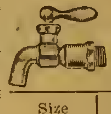
Compression Sill Cock

Heavily plated white nickel finish. Solid brass wheel handle. Take any garden hose. Threaded for ¾-inch iron pipe. Shipping weight, 12 ounces.
81 C 5425 .... **75¢**



Compression Laundry Tub Bibbs

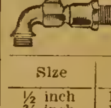
Stubb pattern with flange. Recommended where water pressure is high. For ½-inch iron pipe. Ship wt., 1 pound.
81 C 6700—Brass finish. .. **50¢**
81 C 6701—Nickel-plated... **60¢**



Fuller Plain Bibbs

Polished brass. With hexagon shoulder. Threaded for iron pipe.

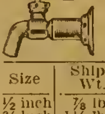
Size	Shipping Weight	81 C 5446 Price Each
½ inch	¾ pound	75¢
¾ inch	1 pound	90¢



Fuller Hose Bibbs

Polished brass. With hexagonal shoulder. Threaded for iron pipe.

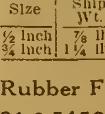
Size	Shipping Weight	81 C 5447 Price Each
½ inch	1 pound	$ .90
¾ inch	1¼ pounds	1.05



Fuller Plain Bibbs with Flarge

Polished Brass or nickel-plated. Threaded for iron pipe.

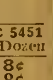
Size	Ship. Wt.	81 C 5448 Brass	81 C 5449 Nickeled
½ inch	⅞ lb.	$ .88	$ .98
¾ inch	1¼ lbs.	1.03	1.10



Fuller Hose Bibbs with Flange

Polished brass or nickel-plated. For hose connection. Threaded for iron pipe.

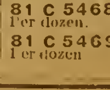
Size	Ship. Wt.	81 C 5458 Brass	81 C 5459 Nickeled
½ inch	⅞ lb.	$ .98	$1.10
¾ inch	1¼ lbs	1.05	1.20



Rubber Fuller Balls

81 C 5450 — Black, for cold water.
81 C 5451 — Red, for hot.
Shipping weights, per dozen, 2 to 6 ounces.

Pipe Sizes of Faucet	81 C 5450 Per Dozen	81 C 5451 Per Dozen
⅜-inch	6¢	8¢
½-inch	7¢	9¢
⅝-inch	9¢	11¢
¾-inch	16¢	20¢

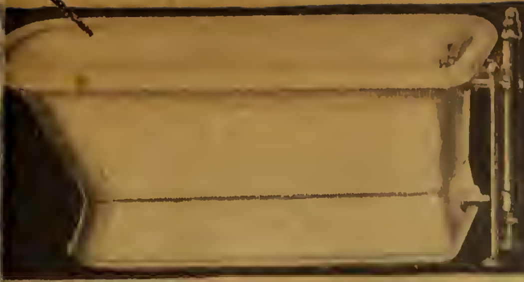


Bibb Washers

Fit any compression type faucet. Mention size. Shipping weight, per doz., about 4 oz.

Size, inches...	⅜	½	⅝	¾
81 C 5468—Black, for cold water. Per dozen.	6¢	7¢	9¢	12¢
81 C 5469—Red, for hot water. Per dozen	8¢	10¢	13¢	16¢

See Page 397 for our large assortment of well known Toilet Soaps



Above picture shows Solid Base Tub with **Ideal** Fittings

Bath Tubs

White Porcelain Enameled Bath Tubs are easily kept snowy white. They are made of heavy cast iron with white Porcelain Enamel on the inside and on the roll rim. Height, to top of rim, 23 inches, width, including rim, 30 inches, depth inside, 17½ inches. Heavy 3-inch roll rim. The above description and dimensions apply to both styles. **Fittings** for either solid base tub shown at left or tub on legs shown at right, are in two styles. Ideal fittings include lifting waste and overflow. Supply pipes to floor and fittings all nickel-plated brass. **Regular** fittings have nickel-plated connected waste and overflow with chain and rubber stopper. Otherwise same as **Ideal.** Fitted with iron supply and lead waste connection. (For iron pipe connection see page 614.) **Ivory White Finish** is an exceptionally fine enamel applied in 6 coats to give the outside of the tub an attractive glossy finish.

$22.95 For 5-Foot Tub

Above picture shows Tub on legs with **Regular** Fitting

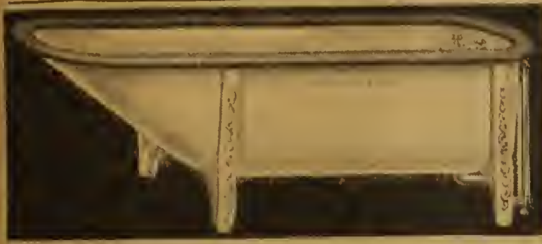
Finely Made Bath Tubs on Cast Iron Bases

Article Number	Style of Fittings	Finish of the Outside of Tub	4½-Ft. Tub Ship. Wt. 325	5-Foot Tub Ship. Wt. 360	5½-Foot Tub Ship. Wt. 415
281 C 6446	Tub only	One coat white paint	$28.25	$28.75	$32.25
281 C 6445	Regular	One coat white paint	34.50	35.00	38.50
281 C 6444	Ideal	One coat white paint	41.75	41.75	45.25
281 C 6452	Ideal	Ivory-white finish	56.25	56.75	60.25

Attractive Bath Tubs on Cast Iron Legs

Article Number	Style of Fittings	Finish of the Outside of Tub	4½-Foot Tub Ship. Wt., 325 Lbs.	5-Foot Tub Ship. Wt., 355 Lbs	5½ Foot Tub Ship. Wt., 370 Lbs
281 C 6434	Tub only	One coat white paint	$22.75	$22.95	$26.75
281 C 6437	Regular	One coat white paint	29.00	29.20	33.00
281 C 6438	Ideal	One coat white paint	35.75	35.95	39.75
281 C 6430	Regular	Ivory-white finish	44.00	44.20	48.00
281 C 6433	Ideal	Ivory-white finish	50.75	50.95	54.75

Shipped from Chicago or Factory in Western Pennsylvania, whichever is nearest you



Heavy Steel Bath Tub

Middleton Bath Tub of heavy sheet steel. Finished white enamel paint inside, blue enamel outside. Three-inch oak top rim. Waste and overflow pipe with rubber stopper. No other fittings.

281 C 6420—4½-foot tub. Shipping weight, 75 pounds **$10.75**

281 C 6421—5-foot tub. Shipping weight, 80 pounds **$11.10**

281 C 6422—5½-foot tub. Shipping weight, 90 pound **$11.50**

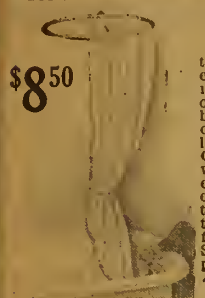
Shipped from Detroit

Windsor Folding Bath Tub

A comfort for outlying homes, not provided with plumbing facilities. Easy to operate, compact, neat and serviceable. Mounted on ball bearing casters. Occupies space about 30 inches square, when folded. Tub is 5 feet long, 30 inches wide. Heavy sheet steel. White enamel paint finish. Hardwood rim. Frame and platform durably built of steel. Nickeloid heater with heavy galvanized steel lining. Water is heated by copper coils. State whether wanted for gas, kerosene or gasoline. Furnished with 4 feet of hose and hose connection for draining. Shipping weight, 170 pounds.

281 C 6424 .... **$36.95**

Shipped from Detroit



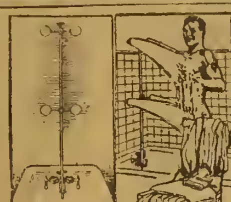
$8.50

Sheldon High Grade Shower

Fitted for attaching to bath cock. The entire frame and all metal parts are made of finely nickel plated brass. Temperature of water easily regulated at bath cock. Complete with soft white duck curtain, curtain rings, rubber cap and 4-foot rubber tube, for connecting to bath cock. Screws for fastening to wall. Shipping weight, 10 pounds.

181 C 6508— **$8.50**

Windsor Curtainless Showers



Spray arrangement eliminates need of curtain. Permits bathing without wetting the hair, yet is ideal for shampooing. Easily set up and taken apart. Attached to bath cock by 4 thumbscrews. May be carried in suitcase when traveling. Made entirely of brass. Shipping weight, 4 pounds.

81 C 6510 .... **$8.25**

Nickel Plated Bath Spray with Hose

Nickel plated brass shower head, with rubber rim: 5-foot bose. Shipping weight, 1 pound.

81 C 6505 .... **60¢**

Rubber-Faced Spray Brush

Shower head has rubber face, with perforations through which the water flows. Has 5 feet of best quality rubber tubing, with rubber bulb, for securely attaching to bath cock. Shipping weight, 1½ pounds.

81 C 6507 .. **$1.50**

Portable Shower Bath

Galvanized steel, 5-gallon tank with a rubber shower hose having adjustable perforated loop. Length, 20 inches; diameter, 10 inches. Flow of water is regulated by valve beneath tank, to which rubber tube is connected. Shipping weight, 6½ pounds.

181 C 6506—Each **$3.60**

Nickel Plated Brass Fixtures

Brass Towel Bars

Nickel-Plated Towel Bar. Made of ½-inch solid brass tubing, Screws included.

Length	15 in.	18 in.	24 in.
Shipping weight.	8 oz.	9 oz.	11 oz.
81 C 6370 ..	68¢	70¢	75¢

Glass Towel Bar

Heavy glass Towel Bar, 1 inch thick. Brass brackets, nickel plated.

Lgth. In.	Ship. Weight, pounds	81 C 6380 Clear Glass	81 C 6381 Opal Glass
18	2¼	$1.68	$2.15
20	2½	1.80	2.20
24	3	1.95	2.35

Towel bar made of ⅜-inch brass tubing. Length, 18 inches. Nickel plated; with screws. Neat design for band or bath towels. Shipping weight, 8 ounces.

81 C 6373 .... **48¢**

Glass Towel Bar

Attractive glass towel bar. Diameter, ⅝ inch. With nickeled brackets and screws for wall. Ship. wts. 2 and 2½ lbs.

Clear Glass Bar

81 C 6376—15-inch ...... $ .94
18-inch 1.00

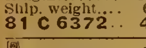
Opal Glass Bar

81 C 6377—15-inch 1.00
18-inch 1.05

Nickel Plated Towel Bar

Towel Bar, made of ½-inch brass tubing. Nickel-plated. With screws.

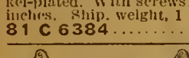
Length	15 in.	18 in.	24 in.
Ship. weight	6 oz.	7 oz.	8 oz.
81 C 6372 ..	48¢	50¢	58¢



Nickel Plated Towel Rack

Three folding arms. Solid brass, nickel-plated. With screws. Length, 13 inches. Ship. weight, 1 pound 14 oz.

81 C 6384 .... **90¢**

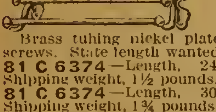


Double Towel Bar

Brass tubing nickel plated. With screws. State length wanted.

81 C 6374—Length, 24 inches. Shipping weight, 1½ pounds .. **$1.80**

81 C 6374—Length, 30 inches. Shipping weight, 1¾ pounds .. **$1.95**



Extra High Grade Rubber Bath Tub Mats

Of high grade white rubber designed to fit bottom of standard 5-foot tub. Corrugated on both sides. Shipping weight, 5 pounds.

281 C 6352 .... **$3.65**

Shipped from Northern Illinois

Rubber Hose for Showers and Sprays

White corrugated rubber hose in five sizes. Ship. wt., per foot, 2 oz.

81 C 6220

Diam.	3/16 in.	¼ in.	5/16 in.
Per ft.	4¢	6¢	8¢
Diam.	⅜ in.	½ in.	.....
Per ft.	10¢	12¢	..

Brass Towel Ring

Diameter of ring 4½ inches. Made of ¼-inch solid brass rod. Nickel plated. Shipping weight, 6 ounces.

81 C 6349 ...... **35¢**

Bath Robe Hook

Length, 2½ inches. Solid brass, nickel-plated. With screws. Shipping weight, 4 ounces.

81 C 6410 ...... **24¢**

Robe Hook

Length, 1½ inches. Nickel plated brass. With screws. Shipping weight, each, 4 ounces.

81 C 6409—Each. **10¢**
Per dozen **$1.14**

Bath Robe Hook

Nickel plated brass. With screws. Shipping weight, 3 ounces.

81 C 6408—Each. **11¢**
Per dozen **$1.25**

Robe Hook

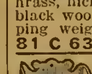
Height, 4½ inches. Brass, nickel plated. With screws. Shipping weight, each, 6 ounces.

81 C 6407—Ea. **38¢**

Paper Holder

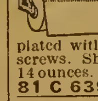
Toilet Paper Holder. made of brass, nickel plated, with black wood roller. Shipping weight, 12 ounces.

81 C 6351 ...... **20¢**



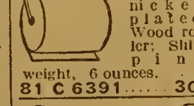
Toilet Paper Holder. Brass, nickel plated with nickel plated screws. Shipping weight, 14 ounces.

81 C 6390 ...... **60¢**



Toilet paper holder. Brass nickel-plated; Wood roller; Shipping weight, 6 ounces.

81 C 6391 ...... **30¢**



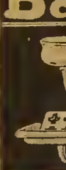
Bath Tub Seat

Polished oak. Nickel plated, rubber-covered hangers to fit over rim of any tub. Substantially made. Shipping weight, 6 pounds.

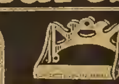
81 C 6405 ...... **98¢**

81 C 6406—Same as above except white enameled seat **$1.10**

White Enameled Bathroom Fixtures



Glass and Soap Holder
Shipping weight, 2 pounds
81 C 6330 — **$1.80**



Toilet Paper Holder
Shipping weight, ¾ pound.
81 C 6392 — ..... **70¢**

Beveled Plate Mirrors

Frames are white enamel. Beveled plate glass. Sizes given are of glass only.

481 C 6393—Oval Design:
10x16 **$3.30**; 12x20 **$4.75**; 14x24 **$6.25**; 18x24 **$6.60**; 18x30 **$9.60**

481 C 6402—Oblong Design with round corners
10x16 **$3.45**; 12x20 **$4.75**; 14x24 **$6.25**; 18x24 **$8.25**; 18x30 **$9.75**

481 C 6404—Oblong Design with square corners
10x16, **$3.10**; 12x20, **$4.25**; 14x24, **$5.90**; 18x24 **$7.60**; 18x30 **$9.15**

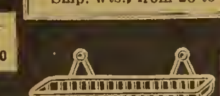
Ship. wts., from 20 to 40 lbs.

Wall Soap Holder
Ship. wt., 1 pound.
81 C 6347 — ..**$1.15**

Glass Holder
½ pound.
81 C 6323. 80¢

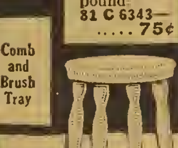
Glass and Tooth-brush Holder
81 C 6336. $1.00

Bath-Rim Soap Cup
Shipping weight, 1 pound
81 C 6343— ..... **75¢**



Comb and Brush Tray
Shipping weight, 1¼ pounds.
81 C 6355 ... **$1.15**

Hook
Wt., 4 oz.
81 C 6411 15¢

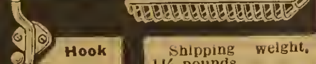


$2.25

Bath Stool

A substantial white enameled stool. The legs are fitted with rubber tips, as shown, so that the stool may be used in the tub without injuring the enamel, also prevents slipping. No braces on legs to come apart or warp. Sturdy and very attractive. A very handy stool that should be in every bathroom. Diameter, 12 inches. Height, 15 inches. Shipping weight 6 pounds.

481 C 6400— **$2.25**

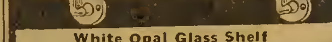


Heavy High Grade Glass Towel Bars

Handsome opal glass bar, with brass brackets finished in dull white enamel. Will not chip or crack easily. No bathroom is complete without it. Shipping weights, 3 to 5½ pounds.

White Opal Glass Towel Bars

Article No.	Size Bar	Length	Price
81 C 6378	⅝ in.	15 in.	$1.10
81 C 6379	⅝ in.	18 in.	1.25
81 C 6382	1 in.	18 in.	2.15
81 C 6383	1 in.	24 in.	2.35



White Opal Glass Shelf

18 by 5 in. Ship wt., 5½ pounds.

481 C 6364 .... **$2.80**

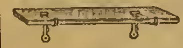
Glass Shelf and Bar

Combination glass shelf and towel bar, with nickeled brass brackets. Shelf, 18 by 5 inches, with screws. Shipping weight, 5 pounds.

481 C 6360 — With clear glass shelf and bar **$3.35**

481 C 6362—With opal glass shelf and bar **$3.50**

Plate Glass Shelf



Attractive glass shelf, width, 5 inches, with nickeled brass brackets and screws. Shipping weights, 4 and 5 pounds.

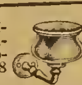
With Clear Glass Shelf

481 C 6361—18 inches **$1.60**
24 inches **1.85**

With Opal Glass Shelf

481 C 6363—18 inches **$1.80**
24 inches **2.10**

Nickel Plated Brass Fixtures



Tumbler Holder: brass, nickel-plated. Shipping weight, 8 ounces.

81 C 6319 .... **60¢**

Combination tumbler holder and soap dish for wall. Fitted with removable soap drain. Nickel-plated brass. With screws. Shipping weight, 18 ounces.

81 C 6329 .... **$1.48**

Wall tooth brush and tumbler holder: brass, nickel plated. Shipping weight, 12 ounces.

81 C 6324 ...... **75¢**

Wall tumbler and soap holder; brass, nickel plated. Shipping weight, 1 pound.

81 C 6328 — ...... **98¢**

Soap dish and tumbler holder for wall. With opal glass tumbler and soap dish. Nickel plated brass. With screw. Shipping weight, 4 pounds.

81 C 6357— **$1.80**

Ornamental tumbler holder for wall. Handy, and convenient. Holds any average size glass. Nickel plated brass. With screws. Shipping weight, 10 ounces.

81 C 6322 ...... **65¢**

Wall tumbler holder. An unusual and pleasing style. Made of Brass nickel plated, with screws to match. Shipping weight, 8 ounces.

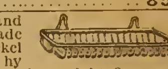
81 C 6318 ...... **40¢**

Soap dish for wall. Opal glass dish. Nickel plated brass. With screws. Shipping weight, 3 pounds.

81 C 6345 .... **80¢**

Faucet soap dish. Adjustable to fit between faucets. Made of brass, nickel plated. Size of dish, 4 by 6 inches. Shipping weight, 10 ounces.

81 C 6337 .... **85¢**



Comb and brush tray made of brass, nickel plated. Size, 9 by 3½ inches. Shipping weight, 9 ounces.

81 C 6340 .... **90¢**

Portable Soap Stand

With removable soap drain. Made of solid brass, nickel plated. Shipping weight, 10 ounces.

81 C 6312 .... **75¢**

Wall soap cup. Brass, nickel plated. Shipping weight, 10 ounces.

81 C 6314 .. **48¢**

Wall soap dish. Brass, nickel plated. Removable soap drain. Shipping weight, 1 pound.

81 C 6315 .... **$1.05**

Soap cup for rim of bath tub. Brass, nickel plated. Shipping weight, 13 ounces.

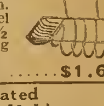
81 C 6344 .... **45¢**

Ornamental soap cup for bath tub. Solid brass, nickel-plated. Shipping weight, 15 ounces.

81 C 6342 .. **$1.35**

Wall soap cup: brass nickel plated. Shipping weight, 4 ounces.

81 C 6310 .... **20¢**



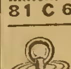
Combination sponge and soap holder; fits over rim of bath tub. Made of brass, nickel plated. Size, 5 x 10x3½ inches. Shipping weight, 14 ounces.

81 C 6339 .... **$1.65**

Nickel-Plated Tooth Brush Holder

Toothbrush holder for four brushes. Made of brass, nickel plated with screws to match. Shipping weight, 6 ounces

81 C 6341 .... **42¢**



Rubber Stopper

For basins, tubs and sinks. White rubber. Nickeled ring. Three sizes: 1, 1¼ and 1½ inches. **State size.** Shipping weight, each, 2 ounces.

81 C 5464 .... **8¢**

Tooth Brush Holder for wall. Solid brass, nickel plated. With screws. Shipping weight, 12 ounces.

81 C 6338—Each... **80¢**

Brass Chain

Solid brass nickel plated links. Width of link, 3/16 inch. To hold lavatory and bathtub stoppers. Shipping weight, per 100 feet 2 pounds. Sizes 2-0.

81 C 8030—
Per foot ...... **5¢**

Attractive Towels add beauty to your bath room. Pages 150-152 and 155

Kitchen Sinks

Winthrop

A very high grade, one-piece, white porcelain enameled Corner Sink with apron. The corner piece prevents splashing against side wall. Sink is of heavy cast iron, white porcelain enameled—easy to keep clean and sanitary. Length over all, 52 inches. Size of sink, 20 by 28 inches. Length of drain board, 21 inches. Height of back, 12 inches.

We can furnish with corner piece at right or left hand. Drain board is always on end opposite corner piece. Cast iron concealed wall hangers and one ornamental leg also included. Height of leg is adjustable. **Trap and faucets not included.** Shipping weight, 230 pounds.

281 C 6665—Sink only, with right hand corner piece and left hand drain board, like illustration........................**$42.40**

281 C 6666 Sink only, with left hand corner piece and right hand drain board..**$42.40**

Roanoke

White porcelain enameled one-piece Sink with drain board. Length over all, 52 inches. Size of sink, 20 by 28 inches. Length of drain board, 24 inches. Height of back, 12 inches. Furnished with drain board at either right or left end. Wall hangers included. Legs not furnished—see No. 181 C 6640 below. **Trap and faucets not included.** Shipping weight, 200 pounds.

181 C 6643—Sink only, with drain board on left hand side..................**$24.65**
181 C 6642 Sink only, with drain board on right hand side..................**$24.65**

KITCHENETTE ROLL RIM SINKS

Length over all, 42 in. Sink, 20 by 22 in. Length drain board, 22 in. Height back, 12 in. **Prices do not include trap, faucets or legs.** Legs listed below. Shipping weight, 165 pounds.
181 C 6638 — Sink only, with left hand drain board..................**$20.45**
181 C 6639—Sink only, with right hand drain board..................**$20.45**
181 C 6640—Cast iron adjustable legs for all above sinks. Shipping weight, per pair, 40 pounds. Per pair....................**$2.70**

Ellsmere

White porcelain enameled Sink with drain board and apron. Sink and back made in one piece, cast from the best grade of gray iron and coated with white porcelain enamel, applied to weld hard and fast between the enamel and iron. No seams or sharp corners.

Length over all, 52 in. Size of sink, 20 by 28 in. Length of drain board, 24 in. Height of back, 12 in.

Furnished with wall hangers and with ornamental legs as illustrated. Height of legs is adjustable. Made with either left or right hand drain board. **Faucets and trap not included.** Ship. wt., 215 lbs.

281 C 6661—Sink only, with left hand drain board..................**$40.95**
281 C 6663—Sink only, with right hand drain board..................**$40.95**

KITCHENETTE FULL APRON SINKS

Length, 42 in. Sink, 20 by 22 in. Drain board, 20 in. Back, 12 in. **Prices do not include trap, faucets or legs.** Ship. wt., 185 lbs.
281 C 6653—Sink only left hand drain board..................**$23.95**
281 C 6654—Sink only right hand drain board..................**$28.95**

Hampton

An ideal white porcelain enameled Corner Sink of beautiful design, with heavy roll rim and ribbed drain board. No seams to accumulate dirt and no sharp corners.

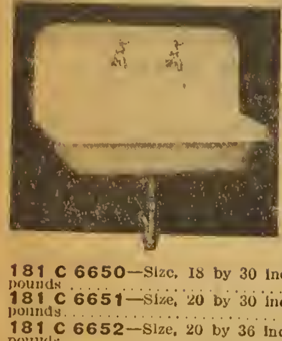
Length over all, 52 inches. Size of sink, 20 by 28 inches. Length of drain board, 24 inches. Height of back, 12 inches.

We can furnish with corner piece at either right or left end. Drain board is always at end opposite corner piece. Prices quoted below include sink and ornamental iron leg, nickel-plated strainer, bolts and wall hangers. **Faucets and trap not included.** Shipping weight, 215 pounds.

181 C 6644—Sink only, with right hand corner piece and left hand drain board. **$29.95**

181 C 6645—Sink only, with left hand corner piece and right hand drain board..................**$29.95**

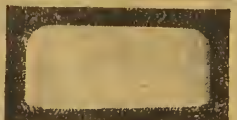
For faucets to fit above sinks, see No. 81 C 5449 Page 614. For traps, see No. 81 C 6691 below. **All enamel ware shipped either from Chicago or Western Pennsylvania, whichever is nearer you**



Novo Roll Rim Sink

One-piece roll rim kitchen or pantry Sink. White porcelain enameled iron. Clean as a china dish. No cracks or corners to collect grease and dirt. Suspended by concealed iron wall hangers. Height of back, 12 inches. Prices given below are for sink with concealed wall hangers, nickel-plated strainer and bolts. **Faucets and trap not included.**

181 C 6650—Size, 18 by 30 inches. Shipping weight, 125 pounds..................**$10.25**
181 C 6651—Size, 20 by 30 inches. Shipping weight, 135 pounds..................**$11.90**
181 C 6652—Size, 20 by 36 inches. Shipping weight, 160 pounds..................**$13.60**

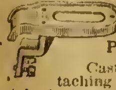


Sink Back
Enameled Cast Iron

Cast iron, white porcelain enameled Sink Back. Length 30 inches. Height, 12 inches. For use with our Ashley Flat Rim Sinks, No. 281 C 6660. Back has holes for two faucets and heavy roll rim. Shipping weight, 30 pounds.
181 C 6664........**$3.75**

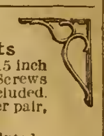
Enameled Drain Board

White porcelain enameled, cast iron roll rim Drain Board. For flat or roll rim sinks. May be placed at either end of sink. Heavy iron bracket for end support.
181 C 6668—Size, 18 by 24 inches. For all sinks, 18 inches wide. Shipping weight, 40 pounds....**$5.50**
181 C 6669—Size, 20 by 24 inches. For use with sinks, 20 inches wide. Ship. wt., 50 lbs.....**$5.90**



White Enameled Pump Bracket

Cast Iron. For attaching to the rim of sink for supporting a pump. Neat in design and very substantial. Suitable for fitting different makes of pumps. Shipping weight, 10 pounds.
81 C 6659........**$3.25**
81 C 6649—Same as above except painted instead of enameled............**$1.15**



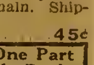
Cast Iron Sink Brackets

Heavy, 11½ by 15 inch adjustable slots. Screws and bolts not included. Shipping weight, per pair, 4½ pounds.
81 C 6705—Painted. Per pair................**55¢**
81 C 6706—Galvanized. Per pair............**$1.05**

Ashley Flat-Rim Sink

Cast iron. White porcelain enameled inside. Painted outside. With strainer, bolts and couplings, for 1¼-in. and 1½-in. lead trap. Iron pipe couplings not included. See 81 C 6687 below.

Size	Ship. Wt.	181 C 6660
18x30 in.	60 lbs.	$4.95
20x30 in.	70 lbs.	5.75
20x36 in.	85 lbs.	7.45



Combination Sink Plug

To keep the sink filled with water. Fits any sink. Heavily nickel plated; with rubber plug and chain. Shipping weight, ½ pound.
81 C 6689..........**45¢**

$6.95 Galvanized Range Boilers

For storing hot water under pressure. To be connected with a heating coil in kitchen stove, furnace or heater. Cold water is carried by tube from top and discharged at bottom of boiler, so it does not mix with hot water which rises to top and always is available.

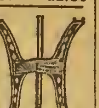
Full instructions included with boiler on request. A 30-gallon boiler is sufficient for an ordinary household. All boilers made of galvanized steel. Height, without stand, 60 inches. Prices below for boilers complete include stand, cold water tube and four union couplings. **Prices for boilers only include nothing but the boiler.** Shipping weights, from 75 to 145 pounds.

Standard Boilers—Guaranteed one year. Tested at 200 pounds pressure. For over 85 pounds pressure of water, we recommend our extra heavy boilers.

	30 Gal.	40 Gal.	52 Gal.
181 C 6707-Boiler only	$6.95	$ 9.10	$14.75
181 C 6719—Complete	8.55	10.70	18.10

Extra Heavy Boilers—Guaranteed for three years. Tested at 250 pounds. For use with water pressure of more than 85 pounds.

	30 Gal.	40 Gal.	52 Gal.
181 C 6708 Boiler only	$8.25	$10.35	$18.45
181 C 6728 Complete	9.85	11.95	21.80



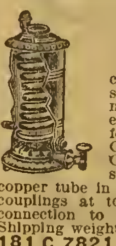
Boiler Stands

Strong and durable cast iron. Shipping weights, 4 to 6 pounds.
481 C 6730—Adjustable for 30 and 40 gallon boilers....**40¢**
181 C 6720—52 Gallon boiler stands with ring top....**$1.98**

Horse Shoe Burner and Valve

For use under range boilers, tanks and stoves. Air supply is adjustable. Complete with burner, valve and mixer with set screw, for ⅜-inch Iron Pipe Gas connection. Shipping weight, 4 pounds.
81 C 7820..................................**$1.20**

$5.85 Water Heaters $5.85
Hot Water All Year



Macon Hot Water Heater

Black sheet steel casing. Conical shape of coil gives maximum heating efficiency. Suitable for 30-gallon boiler. Cast iron burner. Coil is made of a solid seamless drawn copper tube in single piece, with couplings at top and bottom for connection to ¾-inch iron pipe. Shipping weight, 25 pounds.
181 C 7821..........**$5.85**

Warren Water Heater

$21.50

Contains 4 **heavy copper coils,** each 8 feet long. Ends are brazed into bronze metal manifolds. Each coil tested at 250 lbs. The half turn of the coils interrupt the flame, utilizes the greatest possible amount of heat. Also prevents any possibility of back-drafts. Holds one gallon of kerosene which will burn twelve hours. Height, 28¼ inches. Ship. weight, 60 lbs.
181 C 7817.........**$21.50**

Easton Water Heater Burns Gas

For quickly heating water in galvanized range boiler. Burns gas. Jacket, top and bottom are of strong cast iron. Double coil of heavy, seamless copper. Iron burner in bottom. Tappings for connection to ¾-inch iron water pipe. Gas valve tapped for ½-inch pipe. Heats sufficient water for bath in 20 minutes. Height, 18 inches. Diameter, 7 inches. Shipping weight, 35 lbs.
181 C 7822..........**$6.50**

Mohawk Bath Heater

Entirely self-contained. The tank is made of galvanized steel, 26 gauge, nickeloid covered with copper coil in bottom. It will heat sufficient water in thirty minutes for a bath. Requires no plumbing. Can be furnished for either city gas or kerosene. Size of tank: height, 26 in; diam., 12 in. Capacity, 10 gallons. Loose cover on top, for filling with water. Ship. weight, 50 pounds.
281 C 6496—For Gas....**$11.45**
281 C 6497—For kerosene **11.50**
Shipped from Detroit, Mich.

Quality Laundry Tubs $7.90 One Part No Back

Moulded in one solid piece of special granitine composition. Slate color. Rounded inside corners. Top edges have patent metallic wringer guard. Faucets below top rim. Ornamental iron legs, with back 6 in. above rim. 24 inches wide and 14 inches deep. Prices subject to market changes.

Shipped from Northern Illinois, New York, Connecticut or Maryland, whichever is nearer to you

Prices do not include Trap and Faucets

281 C 6695—Two Part

Length	Ship. Wt.	Each
48 in.	450 lbs.	$15.70
54 in.	500 lbs.	18.30
60 in.	550 lbs.	20.40

281 C 6698—Three Part

Length	Ship. Wt.	Each
72 in.	650 lbs.	$24.60
80 in.	700 lbs.	27.70
90 in.	750 lbs.	29.70

Laundry Tubs Without Back

24 inches wide, 14 inches deep.

281 C 6690—One Part

Length	Ship. Wt.	Each
25 inches	200 pounds	$7.90
27 inches	225 pounds	8.40
31 inches	250 pounds	8.95

281 C 6694—Two Part

Length	Ship. Wt.	Each
48 inches	400 pounds	$11.55
54 inches	450 pounds	13.15
60 inches	500 pounds	14.65

281 C 6697—Three Part

Length	Ship. Wt.	Each
72 inches	600 pounds	$18.20
80 inches	650 pounds	20.35
90 inches	700 pounds	21.45

See Pages 614 and 617 for tub faucets and traps.

Boiler Couplings

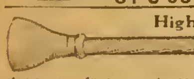
For making connection to range boiler. Fitted with standard ¾-inch iron pipe thread. Complete set consists of four couplings made of malleable iron, heavily galvanized. Each coupling fitted with union joint. Ship. wt., 5 lbs.
81 C 6729..........................**$1.25**

Drain Valve

These valves are for use as Drain Valves on range boilers, pipe lines, or where they are not subject to constant operations. Made in ½-inch size only. Outlet threaded for hose coupling. Shipping weight, 1 pound.
81 C 5431..........................**50¢**

Drain Pipe Solvent

A chemical which cleans drains and bowls quickly and easily. Should be used often. Will clean out pipe stoppages. Shipping weight, per can, 1 pound.
81 C 6515—Per can.....**25¢**



High Grade Force Cups

Rubber Cup. Long hardwood handle. For forcing stoppages from waste or drain pipe. Shipping weight, 1½ pounds.
481 C 6512—Diameter 4 inches.......**25¢**
481 C 6513—Diameter 5 inches.......**50¢**

Traps and Pipe Cleaners

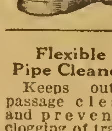
Cast Iron Drum Traps

81 C 6860

95¢

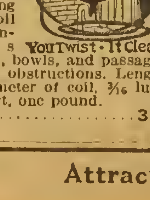
81 C 6862

Have short bodies, with both openings threaded for 1½-inch iron pipe. Cover is nickel plated on brass. Diameter, 4 inches. Shipping weights, 8 and 10 lbs.
81 C 6860—Outlet opening on side at top and inlet opening in center of bottom. 5 in. deep..........**95¢**
81 C 6862—Inlet opening on side at bottom and outlet opening on side at top 8½ in. long.....**$1.10**



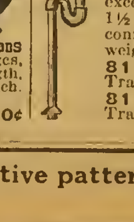
Adjustable Drum Traps

Swivel base is separate from body. Connected with calked joints. May be turned in any direction. Made of cast iron.
81 C 6634—With low outlet. Shipping weight, 18 pounds..............**$2.30**
81 C 6635—For straight line connection. Shipping weight, 20 pounds..**$2.40**



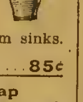
Flexible Pipe Cleaner

Keeps outlet passage clear and prevents clogging of traps and pipes. Strong flexible steel coil with wood handle. Follows curves of traps, bowls, and passages, and cleans out obstructions. Length, 4½ feet. Diameter of coil, ³⁄₁₆ inch. Shipping weight, one pound.
81 C 6516................**30¢**



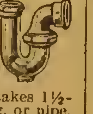
Nickel Plated Sink Traps

Heavy brass, nickel plated. For use with any of the above sinks, except 181 C 6660. Size, 1½ inches. For iron pipe connection. Shipping weight, 5 pounds.
81 C 6870—Half S Trap to wall.......**$1.50**
81 C 6871—Full S Trap to floor.....**$1.98**



Cast Iron Sink Trap

With brass clean-out screw in bottom for cleaning. Fitted for 1½-inch iron pipe outlet. Suitable only for flat rim sinks and laundry tubs. Will not fit roll rim sinks. Shipping weight, 4 pounds.
81 C 6688..................**85¢**



Galvanized Sink Trap

Fits all sinks but the 181 C 6660 flat rim. Has about 1 inch of vertical adjustment. Connection in body permits swinging the trap outlet in any direction. Outlet threaded for 1½-inch iron pipe; inlet takes 1½-inch outside diameter casing, or pipe. Heavily galvanized. Shipping weight, 10 pounds.
81 C 6691..............**$1.20**

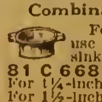
Nickel Plated Sink Trap

Same as 81 C 6691 above, except nickel plated. Ship. wt., 10 lbs.
81 C 6692...**$1.45**

Cast Iron S Trap

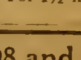
Brass clean-out plug in bottom. Used for flat rim sinks and laundry tubs. Threaded for 1¼ or 1½-inch iron pipe. Bell shaped top to match bell outlet of sink. Fastened with bolts. The flanged collars are not included as they are always furnished with sinks, laundry tubs, etc. Shipping weight, 5 pounds.

Size inches	1¼	1½
481 C 6868	**$1.30**	**$1.70**



Cast Iron Half S Trap

Half S. Otherwise same as 481 C 6868 above. Shipping weight, 10 pounds.
481 C 6869—
1¼ inch..............**65¢**
1½ inch..............**85¢**



Combination Sink Coupling

For iron pipe thread. For use with flat rim cast iron sinks. Ship. wt., 1½ pounds.
81 C 6687—
For 1¼-inch Pipe..................**15¢**
For 1½-inch Pipe..................**20¢**

Attractive patterns in Linoleum are shown on Pages 498 and 499

Closet Outfits

Flavia Washdown Closet

White vitreous china Tank. Latest flushing mechanism with white china lever. Bowl of fine white vitreous china, washdown type. Mahogany finished seat with nickel plated extension post hinges. Nickel plated brass slip-joint elbow pipe from tank to bowl and supply pipe to floor with flange. For iron pipe connection. Nickel-plated floor screws and washers. Shipping weight, 120 pounds.

181 C 6460.......................**$26.15**
181 C 6428—Same as above except has oak seat.......................**$26.05**
181 C 6462—Same as above except with white porcelain enameled iron tank, and oak seat.......**$25.95**
181 C 6464—White Enameled Iron Tank Only. Complete with nickel plated brass supply pipe and elbow connection for syphon washdown bowl. Shipping weight, 110 lbs.........**$14.65**
181 C 6465—White Vitreous China Tank Only. Complete with nickel plated brass supply pipe and elbow connection for syphon washdown bowl. Shipping weight, 80 pounds......**$14.75**
181 C 6457—Washdown Bowl Only for use with low tank. Fitted with 2-inch brass spud. Shipping weight, 50 pounds..........**$8.75**
181 C 6474—Washdown Bowl Only for use with high tank. Fitted with 1¼-inch brass spud. Shipping weight, 50 pounds..........**$8.80**

Altona Washdown Closet

Substantial copper-lined golden oak Tank, solid oak seat. White vitreous china bowl. Improved washdown type. Nickel plated, brass 2-inch elbow flush pipe with slip-joint couplings. Nickel plated brass supply pipe and floor flange. For iron pipe connection. Shipping weight, 100 pounds.

181 C 6450.................**$20.75**
181 C 6451—Same as above, except with mahogany finish tank and seat....**$20.95**

Wood Tank Only

Complete with nickel plated brass supply pipe and 2-inch elbow flush pipe connections for syphon washdown bowl. Shipping weight, 110 pounds.

181 C 6467—Golden oak finish **$10.35**
181 C 6468—Mahogany finish. **10.45**

Aledo Syphon Jet Closet

Substantial golden oak, copper-lined Tank. Has compound lever ball-cock valve. Push button action. Golden oak seat with nickeled extension post hinges. Latest noiseless type syphon jet, vitreous china bowl. Floor screws and washers are furnished for attaching bowl to the floor. Nickel plated brass offset pipe with slip-joint couplings and supply pipe with floor flange. For iron pipe connection. Shipping weight, 120 pounds.

181 C 6455...................**$28.85**
181 C 6456—Same as above except with mahogany finished tank and seat.......**$29.05**

Wood Tank Only

Complete with nickel plated brass supply pipe and offset for syphon jet bowl. Shipping weight, 110 pounds.

181 C 6498—Golden oak finish...**$10.35**
181 C 6499—Mahogany finish... **10.45**

Madison Syphon Jet Closet

White vitreous china Tank. Best noiseless syphon jet bowl, white celluloid covered seat. Nickel-plated brass hinges, offset flush connection and supply pipe. For iron pipe connection. Ship. wt., 130 pounds.

181 C 6425.................**$37.95**
181 C 6461—Same as above except with mahogany finished seat..........**$33.45**
181 C 6427—Same as above except with white **porcelain enameled iron tank** and white celluloid covered seat..............**$37.85**
181 C 6463—Same as 181 C 6427, but with mahogany finished seat..............**$33.35**

White Vitreous China Tank Only

Complete with nickel plated brass supply pipe and 2-inch offset connection for syphon jet bowl. Shipping weight, 80 pounds.

181 C 6466—Tank only..........**$14.85**

White Enameled Iron Tank Only

Complete with nickel-plated brass supply pipe and 2-inch offset connection for syphon jet bowl. Shipping weight, 110 pounds.

181 C 6469—Tank only..........**$14.75**

Syphon Jet Bowl Only

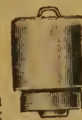
181 C 6458—For use with low tank. Two-inch brass flush connection. Ship. wt. 60 lbs. **$15.95**
181 C 6476—For use with high tank; 1½-inch brass flush connection. Shipping weight, 60 pounds..........................**$16.10**

Automatic Closet

For basement or unfinished places. Requires no tank. Cast iron bowl, white porcelain enameled inside, painted outside. Patent valve flushes automatically, when the seat is occupied. Seat is light oak. Flush valve threaded for ½-inch pipe. Shipping weight, 50 pounds.

181 C 6480...................**$9.10**
181 C 6484—Same as above except without seat or flushing mechanism. May be connected to ½-inch water pipe for direct flushing by hand. Shipping weight, 30 pounds..........**$3.50**

Automatic Cesspool Syphon



For use with septic tanks. This Syphon works automatically and drains the septic tank at regular intervals. Prevents the constant flooding of the distributing system and permits the liquid to reach all parts of the drainage or aerating line and to soak into the soil before another discharge. Made of cast iron, of simple construction and easily installed. Shipping weight, 210 pounds.

281 C 6829...................**$17.95**

Shipped from Factory in Central Iowa.

Cesspool Cover

For cisterns, cesspools and catchbasins. Set on top of cistern wall, 6 inches below ground so that only the actual cover shows above ground. Heavy solid casting so that wagons may be driven over it. Not easily displaced; diameter, 19 inches. Diameter of flange at bottom, 30 inches. Shipping weight, 165 pounds.

181 C 6141...................**$12.85**

Bell Trap Cesspool

Cast iron, bell trap Cesspool or drain. Used for drain outlet in cement floors of basements and area ways. Has bell-shaped trap, which prevents escape of sewer gas. Top plate strainer is removable for cleaning. Easily accessible in case of clogging or stoppage. Has 2-inch outlet. Size, 6 by 6 inches. Shipping weight, 4 pounds.

81 C 6738......................**58¢**

Refrigerator Drain

Should be used with every refrigerator. The perforated disc and the trap are removable, making cleaning easy. A water-sealed trap, made when strainer dips into water in the base, effectually prevents odors coming through the drain pipe. Diameter, 7½ inches. Depth, 2½ inches. Outlet threaded for 1¼-inch pipe. Shipping weight, 8 pounds.

81 C 6739......................**60¢**

Iron Cistern Covers

Cast iron Covers, with rings painted black. For wells, cisterns, and cesspools. Sizes indicate the diameter of opening. Shipping weight, 50 pounds.

181 C 6139—Size, 18 inches.......**$2.35**
181 C 6140—Size, 20 inches........ **3.75**

Lever Hand Hydrant

Brass stop and waste valve, shut-off rod and gooseneck bend for ¾-inch hose connection. When hydrant is shut off, water drains out. Connects below frostline. Length, 4 feet. Shipping weight, 15 pounds.

181 C 6892.......**$2.20**

Anti-Freezing Hydrant

Cast Iron Hydrants in ornamental pattern. A drain valve in the bottom draws all water from the body of the hydrant when not in use. The outlet is threaded for regular ½ and ¾-inch garden hose coupling and union. By removing two bolts, the valve may be pulled out from the top for repairs without digging up the hydrant. Sets 3½ to 4 feet in the ground. Pipe coupling, ¾-inch. Shipping weight, 45 pounds.

181 C 6897...............**$8.20**

Chemical Indoor Closet $6.95

Windsor Chemical Indoor Closets

For the Particular Housekeeper
Endorsed by Doctors and Health Authorities

Easily and quickly installed. No plumbing required. No running water needed.

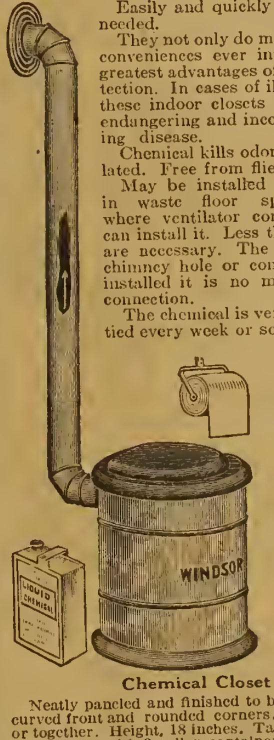
They not only do much to prevent disease but are one of the most practical conveniences ever invented. They provide the home with several of the greatest advantages of the modern bathroom—comfort, convenience and protection. In cases of illness or when members of the family are aged, one of these indoor closets is almost a necessity. Entirely eliminates the health endangering and inconvenient outdoor closet, so often the means of spreading disease.

Chemical kills odor and makes closet entirely sanitary. Always well ventilated. Free from flies and insects.

May be installed in a curtained corner of a bedroom, in a closet, in waste floor space under a stairway, — any convenient place where ventilator connection is obtainable. The cost is trifling. Anyone can install it. Less than half an hour's time is enough and no special tools are necessary. The floor is not cut. The vent pipe is attached to any chimney hole or connected with the outside air in any other way. When installed it is no more conspicuous than an ordinary closet with water connection.

The chemical is very strong and quick in its action. Only needs to be emptied every week or so for a family of four or five.

As with everything else we sell, it bears Ward's guarantee of satisfaction or your money back.



With Steel Case

Attractive enameled steel case with varnished mahoganized seat and cover. Complete with seven 12-inch lengths of 3-inch vent pipe, two elbows, wall collar and chimney reducer, all enameled to match; also paper holder, one roll of paper and one gallon can of Windsor Chemical, enough to last from 4 to 6 months. Height 18 inches; diameter, 16 inches. Shipping weight, 35 pounds.

181 C 6440...........................**$6.95**

Windsor Liquid Chemical

For all makes of chemical closets. Directions on each can. Shipping weight, per gallon can, 10½ pounds.

181 C 6441—Per gallon can..................**$1.40**

Extra Pipe and Elbows

181 C 6443—Enameled pipe for above. Shipping weight, per length, ½ pound. Per length.................**25¢**
181 C 6449—Elbows to match. Shipping weight, each, ½ pound. Each....**28¢**

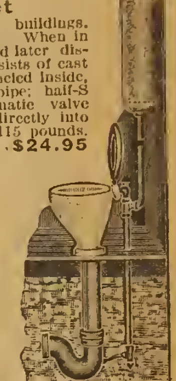
Chemical Closet with Wood Cabinet

Neatly paneled and finished to bring out the natural grain. Gracefully curved front and rounded corners. Lid and seat may be raised separately or together. Height, 18 inches. Takes up floor space 20 by 26 inches.

Complete with 9-gallon container, 5 lengths of 4-inch pipe white enameled, elbow, reducing thimble and wall collar, paper holder and two rolls of crepe paper, 1 gallon chemical and directions for setting up. Shipping weight, 60 pounds.

181 C 6442...............................**$14.85**

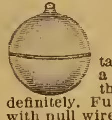
Frost Proof Closet



For installation in unheated buildings. Automatic and positive flushing. When in use, water is admitted to tank and later discharged to flush the bowl. Consists of cast iron bowl, white porcelain enameled inside, painted outside; 2½ feet of soil pipe; half-S trap, pressure tank and automatic valve mechanism. May be calked directly into soil pipe hub. Shipping weight, 115 pounds.

181 C 6453.................**$24.95**

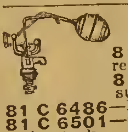
Rubber Ball Float Valve



For closet tanks. Made of a grade of rubber that will last indefinitely. Furnished complete with pull wire for ball. Shipping weight, all sizes, 9 ounces.

81 C 6481—State size.
Size, 2 inches..........**17¢**
Size, 2½ inches..........**19¢**
Size, 2¾ inches..........**22¢**
Size, 3 inches..........**25¢**

Ball Cock



Shipping weight, 1¼ pounds.

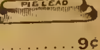
81 C 6482 — For low tank, with refills........................**$1.60**
81 C 6485 — For high tank, top supply........................**$1.46**
81 C 6486—High tank, bottom supply.........**1.35**
81 C 6501—Compound lever elevated wall cock for low tank..........................**$1.70**

Closet Seat

Three styles, each with nickel plated brass bar hinge. Shipping weight, 14 pounds.

481 C 6487—Solid golden oak seat and cover..........**$2.65**
481 C 6488— Mahogany finish seat and cover...........**$2.75**
481 C 6495—All white celluloid covered seat and cover. Finest made.............**$7.25**

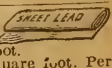
Plumbers' Pig Lead



Sold only in bars of about 1 pound.

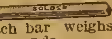
84 C 5196—Per pound...................**9¢**

Sheet lead: State thickness.



81 C 6822—Shipping weight, add 18 to 20 ounces to weight per square foot. $\frac{1}{32}$-inch thick. Weighs, 2 pounds per square foot. Per square foot..........................**20¢**
$\frac{1}{16}$-inch thick. Weighs, 4 pounds, per square foot. Per square foot..........................**38¢**

Plumbers' Solder



Best grade. Sold by the bar only. Each bar weighs 1½ pounds. Shipping weight, per bar, 2 pounds.

84 C 5191—Per bar...................**39¢**

Standard Long Lead S Trap

The outlet is fitted with brass bushing for connection to standard threaded iron pipe. Brass cleanout screw in bottom.

Size	Ship. Wt.	481 C 6876
1¼ in.	4½ lbs.	$1.15
1½ in.	7 lbs.	1.62

Same as above except without brass bushing.

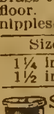
Size	Ship. Wt.	481 C 6872
1¼ inch	4 pounds	$ .82
1½ inch	6 pounds	1.20

Standard Lead Bath Trap

Used for waste connection from bath tubs. Size, 4 by 9 inches. Nickel plated flanged brass cover sets flush on floor. Fitted with brass nipples for iron pipe.

Size	Ship. Wt.	481 C 6885
1¼ inch	6 pounds	$3.30
1½ inch	6 pounds	3.45

Standard Plain Lead Bath Trap



For lead pipe work. Holes may be cut and connections made on the job at whatever points desired. Nickel plated flanged brass cover sets flush on floor. Size, 4 by 9 inches. Shipping weight, 4¼ pounds.

481 C 6887...........**$1.95**

Standard Lead P Trap

Same as 481C6876 at left except in shape. With bushings.

Size	Ship. Wt.	481 C 6866
1¼ in.	2½ pounds	$ .80
1½ in.	4 pounds	1.10

Without Bushing

Size	Ship. Wt.	481 C 6867
1¼ in.	4½ pounds	45¢
1½ in.	7 pounds	65¢

Standard Short Lead S Trap

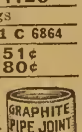
Same as **481 C 6876** at left except shape. With bushings.

Size	Ship. Wt.	481 C 6863
1¼ inch	3 pounds	$ .85
1½ inch	5 pounds	1.20

Without Bushings

Size	Ship. Wt.	481 C 6864
1¼ inch	2⅜ pounds	51¢
1½ inch	4 pounds	80¢

Pipe Joint Cement



For making tight joints. Preserves threads from rust. Allows pipes to be taken apart easily years after installation. Contents of can, 1 pound.

Shipping weight, per can, 18 ounces.

81 C 5608—Per can........**20¢**

Combination Bend and Ferrule

Lead and iron. For connecting closet bowl to soil pipe stack where soil pipe runs in wall. Calks into soil pipe and lead end is flanged on floor.

Size	Ship. Wt.	481 C 6850
4x12 in.	10½ lbs.	$1.95
4x14 in.	10½ lbs.	2.10
4x18 in.	12 lbs.	2.45

Combination Ferrule

For connecting closet to soil pipe where soil pipe runs directly beneath bowl.

For 2-inch Soil Pipe

Number	Size, In.	Ship. Wt.	Each
81 C 6844	1¼x 6	3 lbs.	38¢
81 C 6845	1½x 6	3½ lbs.	39¢
81 C 6846	2 x10	4½ lbs.	58¢

For 4-inch Soil Pipe

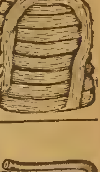
481 C 6847	4x12	9 lbs.	$1.24

Brass Ferrule

For connecting lead waste pipe to cast iron soil pipe. Shipping weight, 1½ lbs.

81 C 6840
Size, 2 by 3¾ inches..........**34¢**
Size, 4 by 4 inches............**64¢**
81 C 6839—Cast iron drive ferrule. Is used as shown in picture of combination ferrule. 4 inches only. Each.......................**24¢**

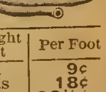
Lead Wool



For calking joints in soil pipe, water and gas mains. No melting, ready to use. Makes an absolutely tight joint, which will not leak.

81 C 5601—
Per pound.........**13¢**

Lead Pipe

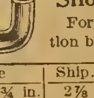


Standard grade lead pipe. When comparing prices, compare weights.

181 C 6734

Size, Inside Diameter	Actual Weight Per Foot	Per Foot
½ inch	1 pound	9¢
¾ inch	2 pounds	18¢
1 inch	2½ pounds	22½¢
1¼ inches	3 pounds	27¢
1½ inches	4 pounds	36¢
2 inches	5 pounds	45¢
4 inches	8 pounds	72¢

Short Lead Bends



For use where combination bends are not needed.

Size	Ship. Wt.	481 C 6882
2x3¾x7¾ in.	2⅞ lbs.	$ .50
4x5½x10 in.	7½ lbs.	1.30

Long Lead Bends

2x7¾x7¾ in.	4¼ lbs.	$ .68
4x10 x10 in.	9 lbs.	1.70

Send for our Book of Wardway Homes

Anti-Freezing Lift Pump
For Hand Use Only

Medium Weight: For wells up to 30 feet deep. Has 4-foot set length and 3 by 10-inch iron cylinder. Stroke, 6 inches. Fitted for 1¼-inch suction pipe. Shipping weight, 55 pounds.

181 C 5800......$4.90

Heavy Pattern: For wells up to 30 feet deep. Has 4-foot set length, iron cylinder, with 6-inch stroke.

Article Number	Cylinder	For Pipe	Ship. Wt., Lbs.	Each
181 C 5804	2½ in.	1¼ in.	63	$5.55
181 C 5805	3 in.	1¼ in.	68	5.70
181 C 5806	3½ in.	1½ in.	70	6.70
181 C 5807	4 in.	2 in.	75	8.35

Pump Standard Only without set length or cylinder. Stroke, 6 inches. Fitted for 1¼, 1½ or 2-inch pipe. **State size.** Shipping weight, 40 pounds.

181 C 5840 ....$2.90

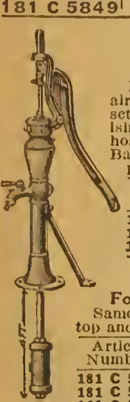
Anti-Freezing Lift Pump
For Windmill or Hand Use

Same pump as **Heavy Pattern** above, with a windmill top.

Article Number	Cylinder	For Pipe	Ship. Wt.	Each
181 C 5821	3 in.	1¼ in.	70 lbs.	$7.10
181 C 5822	3½ in.	1½ in.	75 lbs.	7.80
181 C 5823	4 in.	2 in.	80 lbs.	9.55

Extra Heavy Standard Only. Same as 181 C 5840 **except for use in wells up to 100 feet deep.**

Number	Stroke	Ship. Wt.	Each
181 C 5848	6 inches	52 pounds	$4.55
181 C 5849	10 inches	60 pounds	5.10



Anti-Freezing Force Pump
For Hand Use Only
Without Windmill Top or Cock Spout

For wells up to 30 feet deep. Has air chamber in top of stock, 4-foot set length, brass stuffing box, polished piston, iron cylinder, ¾-inch hose connection on plain spout. Back of spout tapped for 1¼-inch pipe. Stroke, 6 inches.

Article Number	Cylinder	For Pipe	Wt., Lbs.	Price Each
181 C 5811	3	1¼	80	$8.10
181 C 5812	3½	1½	87	9.10
181 C 5813	4	2	95	10.35

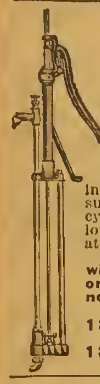
Anti-Freezing Force Pump
For Windmill or Hand Use

Same as above, except with windmill top and cock spout. See illustration.

Article Number	Cylinder	For Pipe	Wt., Lbs.	Each
181 C 5829	3	1¼	85	$10.25
181 C 5830	3½	1½	87	11.35
181 C 5831	4	2	90	12.60

Heavy Pump Standard Only: Without cylinder or set length. With cock spout. For wells up to 100 feet deep. Otherwise same as 181 C 5829 above. State size of pipe to fit, 1¼, 1½ or 2-inch.

Number	Stroke	Ship. Wt.	Each
181 C 5860	6 inches	64 pounds	$7.65
181 C 5861	10 inches	71 pounds	8.60



Anti-Freezing Force Pump
With Three-Way Valve
For Windmill or Hand Use

Anti-Freezing Pump with improved vertical distributing valve to send water through underground piping to water supply tank, etc. Valve is underground but is operated by wheel handle at spout. Spout is fitted with ¾-inch hose coupling. Pump is tapped for 1¼-inch discharge and 1¼, 1½, or 2-inch suction pipes, depending on size of cylinder. Length from platform to lower elbow, 4 feet 10 inches. Width at bottom over valve, 11 inches.

Price includes pump standard with extension below pump base only. Includes 3-way valve. Cylinder not included.

Shipping weight, 100 pounds.

181 C 5875—With 6-inch stroke **$12.75**

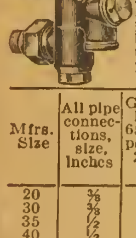
181 C 5876—With 10-inch stroke **$13.40**

Double Acting Force Pump
Three-Way Valve
For Windmill or Hand Use
Anti-Freezing

Complete with upper and lower brass lined cylinders. Has a quick-acting cam-lever shifting device, and lower three-way valve. Water may be forced through underground pipe to storage tank or from the spout as desired. The spout and three-way cock have 1-inch discharge. The upper cylinder is of drawn brass tubing. Has a large waterway and a spacious air chamber, and will work easily against heavy pressure. Has 6-inch stroke. Width over cylinder, 6 inches. Length below platform, 4 feet 6 inches. Shipping weights, 81 and 85 pounds.

181 C 5882—With 3 by 10-inch brass lined cylinder for 1¼-inch pipe **$14.50**

181 C 5883—With 3½ by 10-inch brass lined cylinder for 1½-inch pipe **$15.10**

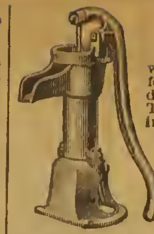


Injector Model X

Will start instantly after interruption to steam or water supply. Will start at 20 pounds, and work to 120 pounds. Will lift water 20 feet with 80 pounds of steam, and will handle hot water as hot as 130° F. Takes same pipe connections as U. S., Penberthy and other injectors of this type. Shipping weights, 3 to 9 pounds.

81 C 5581

Mfrs. Size	All pipe connections, size, Inches	Gallons hour, 65 to 90 pounds 2-feet lift	H. P. for ordinary boiler, 7½ gals. per H. P. per hour	H. P. on a basis of 30 lbs. water per H. P. per hour	Price Each
20	⅜	60	2–6	4–8	$4.95
30	⅜	80	4–6	6–12	5.35
35	½	140	8–16	12–20	5.95
40	½	190	16–23	20–30	6.70
50	¾	270	23–30	30–45	8.40
60	¾	370	30–45	45–60	10.10
70	1	490	45–65	60–80	13.45
80	1	620	65–80	80–110	15.20



Pitcher Spout Pump

For cisterns and wells not over 20 feet deep. Cylinder reamed smooth. To prevent freezing, raise handle to its extreme height, which empties the pump and pipe. Shipping weight, 22 pounds.

Article No.	181 C 5911	181 C 5912
Diameter of bore..	3 inches	3½ inches
For pipe..	1¼ inches	1¼ inches
Each.....	$1.98	$2.25

Rubber Bucket Chain Pump

Has painted, galvanized steel case, with cast iron base. For wells over 18 inches in diameter. Water is brought up in tube by close fitting rubber buckets on an endless chain. Tube is self-draining. Complete with galvanized steel tubing and chain with rubber buckets. An inexpensive pump that will give years of service. Shipping weight, 47 to 55 pounds. **Give size.**

181 C 6148

For Wells	10 ft.	12 ft.	15 ft.
	$7.45	$7.75	$8.25
For Wells	**18 ft.**	**20 ft.**	**25 ft.**
	$8.95	$9.45	$10.75

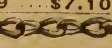
Force Pump with Brass Lined Cylinder

$7.10

For cisterns and wells not over 20 feet deep. Throws a large volume of water. Heavy iron cock spout with ¾-inch hose coupling. Back of spout tapped for 1-inch pipe. Has 3-inch **brass lined** body. Fitted for 1¼-inch suction pipe. Shipping weight, 30 pounds.

181 C 5919 ....$7.10

Pump Chain



Galvanized steel links. For our Rubber Bucket Pumps. Shipping weight, per foot, 6 ounces.

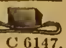
181 C 6145—
Per foot.......... **3½¢**

Rubber Pump Buckets

Small drain hole in edge. Size, 1 inch, used with our 181 C 6148 pumps. Shipping weight, per dozen, 1½ pounds.

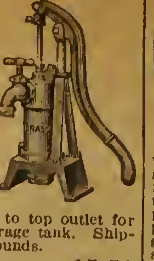
81 C 6142—
Per Dozen.......... **38¢**

Galvanized Chain Buckets



For Pump 181 C 6147. Sizes of bucket, 2 by 2½ by 4¼ inches. Length, including links, 12 inches. Shipping weight, per foot, 1 pound.

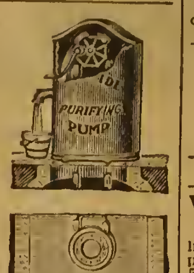
181 C 6118—Per ft..**17¢**



Kitchen Force Pump

One of the finest little hand pumps on the market. Strongly built and well finished brass cylinder, 3 inches. For wells and cisterns not over 20 feet deep. Fitted for 1¼-inch suction pipe and 1-inch discharge. Brass faucet threaded for ¾-inch hose connection. Pipe can be connected to top outlet for pumping to a storage tank. Shipping weight, 20 pounds.

181 C 5915..........$5.50



Lakeside Purifying Pump

Painted galvanized steel case with cast iron base. Water is brought up in galvanized buckets, which when passing down, carry air into the water purifying it. For wells over 18 inches in diameter and up to 30 feet deep. With chain buckets and iron bottom wheel. Ready for use. Shipping weight, 60 pounds. **Give size.**

181 C 6147

For wells of depth listed below

10 ft.	15 ft.	20 ft.	25 ft.	30 ft.
$9.50	$11.25	$12.90	$14.65	$16.25

181 C 6137—Cast iron platform for above. Size, 33 by 40 in. Shipping weight, 91 pounds **$8.70**

Well Cylinders

Heavy. Give long service. Best grade leathers. For hand use, we suggest 3½ to 4 inch for wells 20 to 30 feet; 3 to 3½ inch for wells 40 to 80 feet; 2½ to 3 inch for wells over 80 feet; and a smaller cylinder for windmills; 10 and 12 inch have 6-inch stroke; 16-inch sizes have 10-inch stroke. Cylinders up to 3 inch, usually tapped for 1¼-inch pipe; 3½ and 4 inch for 1½ and 2-inch pipe; 10-in. size has single leather plunger, others have double leather galvanized plungers.

481 C 5956—Smooth iron, ground and polished. Shipping weights, 9 to 25 pounds.

Give pipe size when ordering.

Diameter of Bore	10-inch Cylinder	12-inch Cylinder	16-inch Cylinder
2½ inches	$1.40	$1.95	$2.25
3 inches	1.65	2.25	2.60
3½ inches	2.25	2.95	3.70
4 inches	2.95	3.75	4.75

481 C 5957—Iron body, polished brass lining, iron caps.

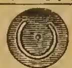
Diameter of Bore	10-inch Cylinder	12-inch Cylinder	16-inch Cylinder
2½ inches	$3.10	$3.25	$3.95
3 inches	3.45	3.65	4.30
3½ inches	4.10	4.30	5.25
4 inches	4.95	5.45	6.75

Crimped Plunger Leather

Made of fine selected oak-tanned stock. **Size is inside diameter of cylinder. State size.** Shipping weights, ½ to 4 ounces.

81 C 5984

Size In.	Each	Size In.	Each
1¾	6¢	3½	17¢
2	7¢	4	22¢
2¼	8¢	4½	26¢
2½	9¢	5	34¢
2¾	10¢	5½	38¢
3	12¢	6	44¢



Check Valve Leathers

Inside diameter is size of cylinder. Shipping weights, ½ to 4 ounces.

81 C 5985

Size, Inches Inside	Size, Inches Outside	Each
2	2½	3¢
2¼	2¾	4¢
2½	3	5¢
2¾	3¼	6¢
3	3½	7¢
3½	4	10¢
4	4½	13¢

H. D. Ejector or Jet Pump

For raising water and liquid in mines, pits, wells and tanneries. A bilge pump for steam boats. Solid brass. Will lift 24 feet with 65 pounds steam pressure and will elevate 50 to 60 feet. With 100 pounds pressure will elevate 70 to 80 feet. Shipping weights, 1 to 7 pounds.

Mfrs. Size	Pipe Connections Steam	Pipe Connections Suction Delivery	Capacity per Hour Gallons	Art. No. 81 C 5579
1	⅜	½	250	$1.95
2	½	¾	500	2.45
3	¾	1	960	4.75
4	1	1¼	1,300	4.95
5	1¼	1½	2,000	6.25

Bronze Water Relief Valve

Opens automatically at pressure set by hand wheel adjustment. Has large relieving capacity. Simple and durable. Set at factory to blow off at 100 pounds. May be adjusted for other pressures. Used on pumps, pipe lines, etc. Shipping weights, 2½ to 4½ pounds.

Pipe size, In.	¾	1	1¼
81 C 5548...	$4.40	$5.30	$6.60

Drive Well Points

Made of high grade heavy wrought iron pipe. Perforated and galvanized, covered with durable perforated brass jacket. We have points in two grades. Point in common use is No. 60 gauze. Very fine No. 100 gauze is used for quicksand. Terms No. 60 and No. 100 refer to number of wire meshes to inch. Made in sizes ranging from 24 to 48 inches with pipe diameters from 1¼ to 2 inches. **Give article number and size when ordering.**

Diam. Pipe Size	Length	Shipping Weight	481 C 5990 No. 60 Gauze	481 C 5991 No. 100 Gauze
1¼ in.	24 in.	5½ lbs.	$1.10	$2.40
1¼ in.	30 in.	6½ lbs.	1.40	3.10
1¼ in.	36 in.	7½ lbs.	1.70	3.60
1¼ in.	42 in.	8½ lbs.	2.00	4.25
1½ in.	30 in.	8¼ lbs.	1.85	3.60
1½ in.	36 in.	10 lbs.	2.15	4.25
2 in.	36 in.	13 lbs.	3.20	5.60
2 in.	48 in.	17 lbs.	4.10	7.55

Heavy Drive Cap

For driving well points. Shipping weights, 1½ to 2¾ pounds.

Pipe Size.......	1¼ in.	1½ in.	2 in.
81 C 5995	25¢	30¢	55¢

Galvanized Pump Rod

Lengths, about 18 feet. **Not Mailable.** Plain ends (not threaded).

Size, inches............	⅜	7/16	½
Weight, per 100 feet, lbs..	38	52	68
181 C 6036—Per foot	5¢	7¢	9¢

For threaded ends add 5¢ per thread and specify with ends threaded.

Galvanized Steel Rod Coupling

Galvanized malleable iron, to fit pump rods. Shipping weight, 4 ounces.

81 C 6040—Size, ⅜ inch, 14 thread...4¢

81 C 6041—Size, 7/16 inch, 12 thread...5¢

81 C 6042—Size, ½ inch, 12 thread...6¢

Square Wood Pump Rod

Used chiefly in tubular wells. Length, about 12 feet. **Not Mailable.**

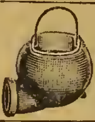
Size, 1 inch. Shipping weight, per 100 feet, 30 pounds.

181 C 6032—Per 100 feet..**$4.10**

Wood Rod Couplings

Malleable iron, with rivet holes. Galvanized. For 1-inch wood pump rod. Shipping weight, per pair, 1 pound.

81 C 6030—Per pair..........**35¢**

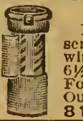


Pump Spout Attachment

For conveying water from pump spout to water trough, etc. Japanned. Cast iron. Ship. wt., 4½ lbs.

81 C 5890—For 1¼-inch pipe ....**35¢**

81 C 5891—For 1½-inch pipe ....**50¢**



Pipe Strainer

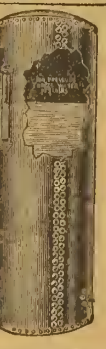
Fastens to end of suction pipe with set screw. Made of malleable iron. Covered with brass wire cloth. Average length, 6½ inches. Shipping weights, 1 to 2 pounds.

For pipe size.	1 in.	1¼ in.	1½ in.	2 in.
Outer Diam..	1½ in.	1⅞ in.	2 in.	3 in.
81 C 5998.	33¢	38¢	42¢	58¢

Foot Valve Strainer

Made of cast iron. Japanned. To screw on lower end of suction pipe. Threaded for iron pipe.

Size, inches..	1¼	1½	2
Ship. wt......	3 lbs.	5 lbs.	7 lbs.
81 C 6000....	45¢	75¢	$1.00



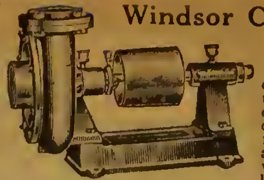
Lakeside Pneumatic Tanks

Lakeside Pneumatic Tanks made of 3/16-inch sheet steel, with 5/16-inch heads. Horizontal seams are double riveted, air tight and very strong. Tappings arranged for the tank to stand vertically or lie horizontally. Vertically, water gauge tappings are placed on side. Horizontally, in the concave head. **State which style tapping is wanted.** For Tanks with manholes in heads, add $10.50 extra.

Our steel pneumatic tanks listed below are absolutely dependable for working pressure of 75 pounds. Tested at 125 pounds. Actual capacity is about one-half more than working capacity.

Diameter, Inches	Length, Feet	Shipping Weight, Pounds	Actual Capacity, Gallons	281 C 8205 Black Tanks	281 C 8206 Galvanized Tanks
24	6	445	140	$38.70	$58.75
24	8	550	190	48.80	73.35
30	5	525	185	44.80	67.25
30	6	590	220	49.50	76.50
30	8	720	295	60.80	93.60
30	10	850	365	70.10	108.75
30	12	980	435	79.20	123.70
36	6	730	315	58.80	92.85
36	8	890	420	73.20	113.70
36	10	1030	525	84.50	131.50

Larger sizes quoted on request. Shipped from Northern Illinois

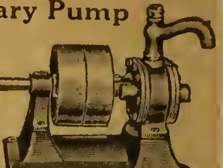


Windsor Centrifugal Pump

For irrigation, drainage and contractors' use. Used extensively for drainage and irrigation service and other work where a moderate lift of a large volume of water is desired. Recommended for all service where the total head does not exceed 65 feet and where the pump can be placed not more than 20 feet from the surface of the water. Large pulley, supported on either side by long bearings is provided with grease cups. Extra long packing gland with grease cup reduces friction in the stuffing box to a minimum. Complete instruction booklet with each pump.

Discharge In.	Suction In.	Cap. Gal. Per Min.	Speed R. P. M. 40ft. Hd.	Diam. & Face of Pulley	Ship. Wt. Lbs.	281 C 5964
1	1¼	25	2190	4x 3	40	$19.00
1½	2	70	1888	4x 4	75	32.00
2	2½	120	1660	4x 4	95	38.40
2½	3	185	1468	6x 6	165	57.75
3	4	265	1325	7x 6	205	70.40
4	5	470	1100	8x 8	330	83.25
5	6	750	1018	9x10	485	105.50
6	8	1050	883	10x10	600	128.00

Shipped from Northern Indiana



Windsor Rotary Pump

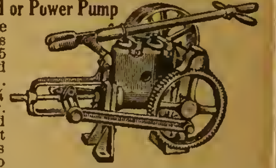
Sizes, 1, 2, and 3 have a 10 by 3-inch pulley. Sizes, 4 and 5 have a 12 by 3½-inch pulley. Everything is easily accessible. The base is high with the end open, allowing for pipe fitting without disconnecting the pump or moving the base. A pipe flange which may be removed by simply loosening two set screws and giving it a half-turn is used to connect the suction pipe. The pump gears are machine cut, quiet and smooth running.

Long Bearings are provided in the flange housing. Instead of the ends of the bearings being sealed with lead, the flanges are cast solid on bearing ends. This assures non-leaking from end of shaft.

Independent Side Plates are used so it is necessary to remove the plates only in case of wear. Used for irrigation and fire protection. Moves a large volume of water with a minumum of power. For pumping acids, bronze pumps should be used, and metal valves when used for hot liquid. Shipping weights, 80 to 160 pounds.

Article Number	Size	Suction In.	Discharge Inches	Cap. 100 R. P. M.	Price Each
281 C 5884	1	1¼	1	13 gal.	$12.95
281 C 5885	2	1¼	1	14 gal.	14.35
281 C 5886	3	1½	1¼	17 gal.	16.65
281 C 5887	4	1½	1½	27 gal.	30.40
281 C 5888	5	2	2	36 gal.	34.45

Shipped from Northern Illinois



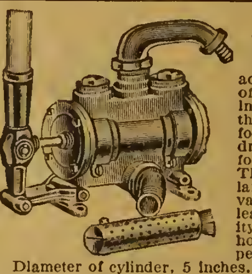
Geyser Junior Hand or Power Pump

For pressure not over 75 pounds or not over 175 feet, total head (lift and force). Requires from ¾ to 1½ horsepower. To use as hand pump, pull out pin which connects side crank arms to cross head and connect up hand lever. Has machine cut gear and pinion. Waterways are short, direct and of large area. The suction valves are placed slightly below suction openings so pump will hold its priming. All parts are accessible. Head may be reversed allowing suction or discharge to be taken from either side. Cylinder, 3 inches in diameter; tight and loose pulleys for 2-inch belt. Capacity of pump, 12 gallons per minute at 40 revolutions per minute (R.P.M). Fitted for 1½-inch suction and 1¼-inch discharge. Tapped with ¼-inch opening for air valve so pump may be used with pressure tank. Shipping weight, 145 pounds.

281 C 5844.........................$39.15

281 C 5845—With air pumping attachment for penumatic water supply system. Shipping weight, 150 pounds **$40.60**

Shipped from Northern Ohio or from Stock at Chicago

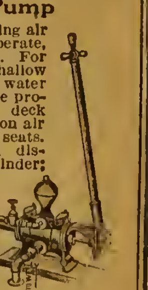


Thresher Tank Pump

An efficient double acting force Pump of large capacity intended for filling thresber wagon tanks for water supply, draining cellars or for general service. The waterways are large and direct, the valves are of metal, leather faced. Capacity, 2,000 gallons an hour at 40 strokes per minute.

Diameter of cylinder, 5 inches. Stroke, 5 inches. Suction size, 2 inches. Discharge, 2 inches at pump, and 1 inch at tip for 1-inch hose connection. Spout reversible. With handle hose connection and strainer. **Hose not included.** Shipping weight, 87 pounds.

181 C 5925 ....$9.90

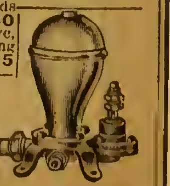


Horizontal Force Pump

Improved combination double-acting air and water Force Pump. Easy to operate, compact and substantially designed. For pumping water from cisterns or shallow wells, to elevated tanks, pneumatic water supply systems, also adapted for fire protection, filling boilers and as a deck pump. Has geared drive and cushion air chamber, brass piston rod and valve seats. Has 1¼-inch intake and 1-inch discharge. Brass lined, 3-inch cylinder; stroke, 4 inches. Length over all, 24 inches. Geared drive, very easy operating. Pumps sufficient amount of air with each stroke to maintain the proper pressure in the tank. Capacity, 4 gallons per minute. Mounted on board base, 7½ by 24 inches.

181 C 5938—With air attachment. Shipping weight, 60 pounds **$13.40**

181 C 5937—Same as above, without air attachment. Shipping weight, 58 pounds **$10.75**



Automatic Hydraulic Ram

For a continuous automatic water supply where you have a stream or pond, send for our Circular on Rams which gives prices, specifications and instructions.

Well Augers are listed on Page 603

90 Degree Elbows
Malleable

Ship. wt., 2 to 2½ lbs.

Pipe In.	81 C 5360 Black	81 C 5361 Galv.
¼	2¢	3¢
⅜	3¢	5¢
½	5¢	8¢
¾	7¢	9¢
1	9¢	12¢
1¼	16¢	23¢
1½	21¢	30¢
2	32¢	45¢

45 Degree Elbows
Malleable

Ship. wt., 1 oz. to 2 lbs.

Pipe In.	81 C 5362 Black	81 C 5363 Galv.
¼	2½¢	3½¢
⅜	3 ¢	4½¢
½	5 ¢	6 ¢
¾	7 ¢	10 ¢
1	10 ¢	13 ¢
1¼	20 ¢	28 ¢
1½	26 ¢	36 ¢
2	42 ¢	58 ¢

Street Elbows
Malleable

Ship. wt., 1 oz. to 2½ lbs.

Pipe In.	81 C 5352 Black Each	81 C 5353 Galv. Each
¼	2¢	3¢
⅜	4¢	5¢
½	6¢	8¢
¾	8¢	11¢
1	9¢	14¢
1¼	14¢	21¢
1½	20¢	30¢
2	30¢	45¢

Malleable Reducers
Size given is the large end. Reduces one size.
Ship. wt., 1 to 18 oz.

Pipe In.	81 C 5370 Black	81 C 5371 Galv.
¼	2¢	....
⅜	2¢	....
½	4¢	5¢
¾	5¢	8¢
1	6¢	10¢
1¼	8¢	13¢
1½	11¢	18¢
2	18¢	27¢

Malleable Tees

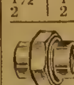
For reducing fittings one size only. When ordering give size of branch opening, and state tappings wanted. Largest end governs price.

Large End In.	Ship Wt. Lbs.	Straight Sizes 81C5364 Black	Straight Sizes 81C5365 Galv.	Reducing Sizes 81C5357 Black	Reducing Sizes 81C5358 Galv.
¼	¼	4¢	5¢	4¢	5¢
⅜	¼	5¢	6¢	5¢	6¢
½	½	6¢	8¢	6¢	8¢
¾	½	7¢	10¢	7¢	10¢
1	½	11¢	15¢	11¢	15¢
1¼	1	16¢	27¢	16¢	27¢
1½	1	19¢	32¢	19¢	32¢
2	2	28¢	45¢	28¢	45¢

Pipe Caps
Malleable

Ship. wt., 1 to 32 oz.

Pipe In.	81 C 5372 Black	81 C 5373 Galv.
¼	1¢	2¢
⅜	2¢	3¢
½	3¢	4¢
¾	4¢	5¢
1	6¢	8¢
1¼	7¢	9¢
1½	9¢	13¢
2	14¢	21¢
2½	21¢	30¢
3	32¢	48¢



Malleable Iron Lip Unions

Shipping weight, 3 to 34 ounces.

Pipe, In.	¼	⅜	½	¾	1	1¼	1½	2
81 C 5374—Black	9¢	10¢	11¢	14¢	17¢	24¢	29¢	37¢
81 C 5375—Galvanized	14¢	16¢	17¢	20¢	26¢	36¢	45¢	57¢

Lock Nuts
Made of malleable Iron.

Ship. wt., ⅛ to 1¾ lbs.

Size In.	81C5386 Black	81C5387 Galv.
½	1½¢	2¢
¾	2 ¢	3¢
1	4 ¢	5¢
1¼	5 ¢	6¢
1½	6 ¢	7¢
2	7 ¢	11¢
2½	14 ¢	23¢
3	18 ¢	28¢

Wrought Couplings

Ship. wt., 7 to 19 oz.

Pipe In.	81 C 5378 Black	81 C 5379 Galv.
⅛	2¢	3¢
¼	3¢	4¢
⅜	4¢	5¢
½	5¢	6¢
¾	6¢	9¢
1	7¢	10¢
1¼	9¢	15¢
1½	13¢	22¢
2	19¢	30¢

Brass Seat Unions
Black. No washer needed. Shipping weight, 3 to 10 oz.

81 C 5392

¼	15¢	1	35¢
⅜	20¢	1¼	48¢
½	25¢	1½	65¢
¾	30¢	2	80¢

81 C 5393—Galv.

¼	20¢	1	$ .40
⅜	25¢	1¼	.55
½	30¢	1½	.85
¾	35¢	2	1.05

Pipe and Fittings

Standard Wrought Pipe At Lowest Prices

You will at all times have the benefit of the very lowest prices ruling at time your order is received. Prices are for pipe in random lengths, from 16 to 20 feet. Threaded both ends, coupling one end. Pipe cut to exact length and ends threaded is charged extra. For instance, if you order 10 feet of 1¼ inch pipe cut and threaded there would be a charge of 6¢ for cutting and threading. Any couplings will be extra. Pipe over 6½ feet not mailable.

Pipe Size In.	Ship. Wt., per Ft., Lbs.	181 C 5600 Black Price per foot	181 C 5602 Galvanized Price per foot	Cutting and Threading per Length
⅛	¼	3 ¢		4¢
¼	⅖	3¼¢	4½¢	4¢
⅜	½	3½¢	5 ¢	4¢
½	⅘	4 ¢	5½¢	4¢
¾	1⅛	5 ¢	6½¢	4¢
1	1⅔	6½¢	9 ¢	6¢
1¼	2¼	9 ¢	12 ¢	6¢
1½	2⅔	10½¢	14½¢	8¢
2	3⅔	14¼¢	19½¢	10¢
2½	5⅘	22½¢	31 ¢	13¢
3	7⅔	29½¢	40 ¢	20¢
3½	9⅕	38¾¢	52 ¢	25¢
4	10⁹⁄₁₀	46 ¢	62 ¢	30¢

Prices subject to market changes.

Return Bends

81 C 5367—Black Open Pattern
Shipping weight, ¾ to 5½ pounds.

Size	Each	Size	Each
¾ in.	14¢	2 in.	$ .40
1 in.	16¢	2½ in.	.83
1¼ in.	20¢	3 in.	1.15
1½ in.	30¢		

Cast Iron 90 Degree Elbows
81C4900—Black

Size In.	Ship Wt., Lbs.	Price Each
¾	1	6¢
1	1¼	7¢
1¼	1½	10¢
1½	2¼	13¢
2	3¼	18¢
2½	5¼	33¢
3	7½	50¢
3½	9	70¢
4	10½	82¢

Elbows Cast Iron 45 Degrees
81C4904—Black

Size In.	Ship. Wt. Lbs.	Price Each
¾	1	7¢
1	1¼	8¢
1¼	1½	13¢
1½	2¼	16¢
2	3¼	22¢
2½	5¼	40¢
3	7½	55¢
3½	9	79¢
4	10½	90¢

Cast Iron Reducing Elbows
81C4902 Black

Size In.	Ship Wt. Lbs.	Price Each
¾	1	7¢
1	1¼	8¢
1¼	1½	12¢
1½	2¼	15¢
2	3¼	22¢
2½	5¼	39¢
3	7½	58¢
3½	9	85¢
4	10½	98¢

Cast Iron Tees
81 C 4906 Black

Size In.	Ship. Wt. Lbs.	Price Each
¾	1	$ .08
1	1¾	.10
1¼	2¼	.15
1½	3¾	.19
2	4½	.27
2½	7	.48
3	10½	.72
3½	13½	.92
4	17½	1.10

Cast Iron Reducing Tees

Size In.	Ship. Wt. Lbs.	81C4912 Black
¾	1½	$ .10
1	1½	.12
1¼	1½	.18
1½	3	.22
2	3½	.31
2½	6½	.54
3	8	.83
3½	10	1.10
4	12½	1.25

Flange Unions
Cast Iron, allow opening through unions same size as inside of pipe.

Pipe In.	Ship. Wt. Lbs.	81C4908
¾	2½	$ .30
1	3	.34
1¼	3	.42
1½	4¼	.51
2	6	.66
2½	9¼	.78
3	11½	.95
3½	13	1.10
4	16	1.30

Wrought Pipe Nipples

Classification of Short Nipples
Up to ½ in., 1½ in. long; ¾ and 1 in., 2 in. long; 1¼ to 2 in., 2½ in. long; 2½ and 3 in., 3 in. long; 3½ and 4 in., 4 in. long; Longer nipples than classified are long nipples. Nipples over 6 in. long will be charged at pipe prices plus cost of threads.

Short Nipples — Ship. wt., ¾ to 12 lbs. **Long Nipples** — Ship. wt., ¾ to 12 lbs.

Size In.	181 C 5380 Black	81C5381 Galv.	Pipe In.	81C5382 Black	81 C 5383 Galv.
⅛	1½¢	2 ¢	⅛	2½¢	3 ¢
¼	1½¢	2 ¢	¼	2½¢	3 ¢
⅜	1½¢	2 ¢	⅜	2½¢	3 ¢
½	2 ¢	2½¢	½	3 ¢	4 ¢
¾	2½¢	3 ¢	¾	3½¢	5 ¢
1	3 ¢	4 ¢	1	5 ¢	6 ¢
1¼	4 ¢	4½¢	1¼	6 ¢	7 ¢
1½	4½¢	5 ¢	1½	7 ¢	8 ¢
2	6 ¢	6½¢	2	9½¢	12 ¢
2½	12 ¢	15 ¢	2½	18 ¢	24 ¢
3	14 ¢	18 ¢	3	22 ¢	28 ¢
3½	2– ¢	35 ¢	3½	34 ¢	50 ¢
4	27 ¢	40 ¢	4	40 ¢	56 ¢

Plugs
Ship. wt., 4 oz. to 48 oz.

Pipe In.	81C5388 Black	81C5389 Galv.
¼	1 ¢	2 ¢
⅜	1½¢	2½¢
½	2 ¢	3 ¢
¾	2½¢	4 ¢
1	3 ¢	5½¢
1¼	3½¢	7 ¢
1½	5 ¢	9 ¢
2	7 ¢	14 ¢
2½	12 ¢	25 ¢
3	17 ¢	34 ¢
3½	26 ¢	52 ¢
4	29 ¢	56 ¢

Bushings
Ship. wts., 4 to 34 ounces.

Pipe In.	81C5390 Black	81C5391 Galv.
¼	3 ¢	5 ¢
⅜	3 ¢	5 ¢
½	3 ¢	5½¢
¾	4 ¢	7 ¢
1	4½¢	8 ¢
1¼	5 ¢	9 ¢
1½	6 ¢	12 ¢
2	9 ¢	18 ¢
2½	13 ¢	26 ¢
3	18 ¢	36 ¢
3½	24 ¢	48 ¢
4	30 ¢	60 ¢

Quarter Bend
Standard

Size, In.	2	4
Ship. Wt., Lbs.	3	7
481 C 6764	35¢	60¢
Extra Heavy		
Size, In.	2	4
Ship. Wt., Lbs.	5½	12½
481 C 6765	48¢	72¢

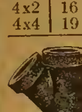
Adjustable Iron Closet Bend
Adjustable Neck Inlet, fits flush with floor. Bend is 18 inches long. Tapped on both sides for 1½-inch iron pipe thread. For Standard or Extra Heavy fittings. Shipping weight, 20 lbs.
481 C 6890 ......$1.75

Sanitary T Branch
481 C 6774 Standard

Size In.	Shipping Weight	Price Each
2x2	6 lbs.	48¢
4x2	11 lbs.	72¢
4x4	14 lbs.	98¢

481 C 6775—Extra Heavy

Size In.	Shipping Weight	Price Each
2x2	8 lbs.	$ .65
4x2	16 lbs.	.95
4x4	19 lbs.	1.20



Drainage Y Branch
Ship. wt., 3½ to 7½ pounds.

Size, In.	1¼	1½	2
81 C 5662—Black	27¢	34¢	50¢
81 C 5663—Galv.	40¢	50¢	74¢

Reducing at Side Opening

Size, in.	1½	2
81 C 5664—Black	38¢	55¢
81 C 5665—Galv.	56¢	84¢

Drainage Tee Branch
Ship. wts., 4½ to 7 pounds.

Size, in.	1¼	1½	2
81 C 5658—Black	24¢	30¢	42¢
81 C 5659—Galv.	36¢	45¢	70¢

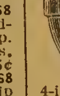
Reducing Side Opening

Size, in.	1½	2
81 C 5660—Black	34¢	48¢
81 C 5661—Galv.	50¢	75¢

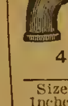
Quarter Bend with Heel Outlet
Size, 4-inch with 2-inch heel outlet.
Standard
Ship. Wt., 12½ lbs.
481C6766 $1.05
Extra Heavy
Ship. Wt., 18 lbs.
481C6767 $1.32

Quarter Bend with Side Outlet
Size, 4-in. with 28 inch side outlet. Ship. wts., 7 and 12 lbs.
State right or left hand.
481 C 6772—Standard .. **$1.05**
481 C 6773—Extra Heavy. **$1.32**

Sixth Bend
481 C 6768 2-in Standard. Ship. wt., 3 lbs. ....**35¢**
481 C 6768 4-in. Standard. Ship wt., 8½ lbs......**50¢**
481 C 6769—2-inch Extra Heavy. Ship wt., 4½ pounds..**38¢**
481 C 6769—4-inch Extra Heavy. Ship. wt., 11¾ lbs....**65¢**



Eighth Bend
481 C 6770 2-in. Standard. Wt., 3 lbs...**30¢**
481 C 6770 4-in. Standard, wt., 8½ lbs ......**50¢**
481 C 6771—2-in. Extra Heavy, wt., 4½ lbs..............**35¢**
481 C 6771—4-in. Extra Heavy, weight, 10½ lbs...............**65¢**



Soil Pipe Offset
For offsetting soil pipe stack, for clearing foundation walls, etc. Last dimension given is distance from center of the offset.

481 C 6794 Standard

Size Inches	Ship. Wt. Lbs.	Price Each
2x4	4½	$ .50
2x6	4¾	.65
2x12	8	.98
4x4	15	.85
4x6	13	.95
4x12	15	1.35

481 C 6796 Extra Heavy

Size Inches	Ship. Wt. Lbs.	Price Each
2x4	7	$ .65
2x6	8	.78
2x12	13¼	1.20
4x4	16	1.05
4x6	16½	1.20
4x12	20½	1.70

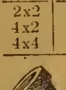
Sanitary Y Branch
48¢

481 C 6792 Standard

Size Inches	Ship. Wt. Lbs.	Price Each
2x2	5	48¢
4x2	10½	72¢
4x4	14½	98¢

481 C 6793 Extra Heavy

Size Inches	Ship. Wt. Lbs.	Price Each
2x2	10	$ .65
4x2	17	.95
4x4	23	1.20



45 Degree Drainage Elbow

Size, In.	1¼	1½	2
Ship. Wt., Lbs.	1¾	2¼	3¼
81 C 5650—Black	16¢	20¢	30¢
81 C 5651—Galv.	24¢	30¢	45¢

90 Degree Drainage Elbows

Size, in.	1¼	1½	2
Ship. Wt., lbs.	2	2½	2⅜
81 C 5652—Black	15¢	19¢	28¢
81 C 5653—Galv.	24¢	30¢	45¢

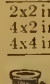
Sanitary Cross
Best quality cast iron.

481C6788—Standard

Size	Ship. Wt.	Each
2x2 in.	5 lbs.	$1.05
4x2 in.	10 lbs.	1.55
4x4 in.	12 lbs.	1.55

481 C 6789—Extra Heavy

Size	Ship. Wt.	Each
2x2 in.	10 lbs.	$1.30
4x2 in.	21 lbs.	1.82
4x4 in.	24 lbs.	1.82



Clean-Out Y
With brass screw cover. Clean out Y of close grain. Cast iron.

481 C 6823—Standard

Size	Ship. Wt.	Each
2 in.	10 lbs.	$1.20
4 in.	13 lbs.	2.10

481 C 6824—Extra Heavy

Size	Ship. Wt.	Each
2 in.	23 lbs.	$1.58
4 in.	25 lbs.	2.60

Soil Pipe Rests
Extra Heavy cast iron.
81 C 6781—2-inch. Ship. Wt., 4 lbs..**35¢**
81 C 6781—4-inch. Ship. Wt., 8 lbs..**40¢**

Soil Pipe

Prices for soil pipé and soil pipe fittings subject to market changes

Single and Double Hub

Shipping weights are actual weights.

Standard Weight — **Single Hub**
181 C 6760—Size, 2 in. Wt., 17½ lbs. Per 5-foot length ....**98¢**
181 C 6760—Size, 4 in. Wt., 36 lbs. Per 5-foot length **$1.75**
Extra Heavy Weight — **Single Hub**
181 C 6761—Size, 2 in. Wt., 27½ lbs. Per 5-foot length **$1.40**
181 C 6761—Size, 4 in. Wt., 65 lbs. Per 5-foot length **$2.95**
Standard Weight — **Double Hub**
181 C 6762—Size, 2 in. Wt., 17½ lbs. 5-foot length **$1.05**
181 C 6762—Size, 4 in. Wt., 36 lbs. 5-foot length **$1.85**
Extra Heavy Weight — **Double Hub**
181 C 6763—Size, 2 in. Wt., 27½ lbs. 5-foot length **$1.45**
181 C 6763—Size, 4 in. Wt., 65 lbs. 5-foot length **$3.10**

Double Hub
Standard
481 C 6800—Size, 2 inch. Shipping weight, 3 pounds..................**42¢**
481 C 6800—Size, 4 inch. Shipping weight, 4½ pounds..................**60¢**
Extra Heavy
481 C 6801—Size, 2 in. Ship. wt., 5 lbs.**50¢**
481 C 6801—Size, 4 in. Ship. wt., 8 lbs.**78¢**

Cast Reducer
Reduces from 4 to 2 inches.
Standard
Ship. wt., 3½ pounds.
481 C 6802....**35¢**
Extra Heavy
Ship. weight, 4 pounds.
481 C 6803....**40¢**

Cleanout Plugs
Cast iron cleanout plugs, brass screw cover. For Standard or Extra Heavy fittings.
81 C 6841—Size, 2 in. Ship. wt., 3½ lbs...**27¢**
81 C 6841—Size, 4 in. Ship. wt., 4 lbs.....**45¢**

Sanitary T Branch
Size, 4 inch with side outlet, for calking in 2-inch pipe. State whether wanted for right or left band. Left is shown.
Standard
481C6778—Ship. wt., 18 lbs.**$1.40**
Extra Heavy
481 C 6779—Shipping weight, 23 lbs... **2.05**

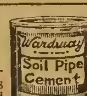
Adjustable Roof Flanges
For making watertight joints at points where pipe passes through roof. May be adjusted to any angle.

Galvanized Steel

Pipe, In.	2	4	5
Ship. Wt., lbs.	2	4	5
81 C 6888	95¢	$1.10	$1.60

All Copper

Pipe, In.	2	4	5
Ship. Wt., lbs.	2	4	5
81 C 6889	$1.80	$2.15	$3.10



Soil Pipe Cement
For cementing joints in iron soil pipe; in powder form. Mix with water as per directions on can and spread into joint with small trowel, after filling joint about two-thirds full of oakum. Hardens quickly and holds securely.
Easy to apply in a few minutes. Makes clean, solid joint. Cans contain 5 pounds, sufficient for about 5 joints of 4-inch soil pipe. Shipping weight, per can, 5½ pounds.
81 C 5701—Per can............**58¢**

Pipe Joint Cement
Prevents leaking pipes. Seals joints; easily unscrewed. Always ready. Shipping weight, per can, 18 ounces.
81 C 5608—1-lb. can............**20¢**

Pipe Straps
81 C 7947

Pipe, In.	¼	⅜	½	¾	1	1¼	1½	2
Per doz.	4¢	5¢	6¢	7¢	10¢	11¢	12¢	13¢

Shipping weight, per dozen, 3 to 10 oz.

S Trap Standard
2 in., Ship. wt., 6½ pounds.
481 C 6806........**78¢**
481 C 6806—Size, 4 in. Ship. wt., 18½ lbs.**$1.30**
Extra Heavy
Size, 2 in. Shipping weight, 8 pounds.
481 C 6807........**95¢**
481 C 6807—Size, 4 in. Shipping weight, 27 pounds..........**$1.58**

S Trap with Vent
One size only. Size 4-inch with 2-inch vent.
Standard
Shipping weight, 24 pounds.
481 C 6808.....**$1.90**
Extra Heavy
Ship. wt., 32 lbs.
481 C 6809......**$2.35**

Half S Trap
Standard
Size, 4-inch. Shipping weight, 20 pounds.
481 C 6810......**$1.30**
Extra Heavy
Size, 4-inch. Shipping weight, 25 pounds.
481 C 6811......**$1.58**

Half S Trap with Cleanout
Standard
Size, 4-inch. Ship. wt., 20 lbs.
481C 6818.. **$2.10**
Extra Heavy
Ship. wt., 29 lbs.
481 C 6819..**$2.65**

Running Trap with Cleanout Standard
Size, 4-inch with 4-inch vent. Shipping weight, 15 pounds.
481 C 6820.........**$2.10**
Extra Heavy
Shipping weight, 30 pounds.
481 C 6821.......................**$2.55**

Tapped Sanitary T Branch
481C6798—Standard

Size	Ship. Wt.	Each
2x1½ in.	5 lbs.	$ .65
4x1½ in.	7 lbs.	1.05
4x2 in.	7 lbs.	1.05

481 C 6799—Extra Heavy

Size	Ship. Wt.	Each
2x1½ in.	10 lbs.	$ .78
4x1½ in.	14 lbs.	1.30
4x2 in.	14 lbs.	1.30

Long Increaser
Used at top of soil pipe stack, wherepipepasses through roof.
Standard
Increases from 2 inch to 4 inch. Length, 24 inches. Ship. wt., 13 pounds.
481 C 6852. **$1.05**
Extra Heavy
Ship. wt., 22 pounds.
481 C 6853......**$1.30**
Standard
Increases from 4-in. to 5-in. Length, 30 in. Ship. wt., 33 pounds.
481 C 6854......**$1.70**
Extra Heavy
Ship. wt., 40 pounds.
481 C 6855......**$2.05**

Perforated Hanger Iron
Ship. wt., 2 and 3 lbs. ¾-inch wide 16 gauge.
81 C 7908—Per 10 feet ....**25¢**
81 C 7908—1-inch wide, 12 gauge. Per 10 feet......**30¢**

Tapped Cross
Side outlets are tapped for standard iron pipe thread, 1½ or 2 inches. Ship. wt., 5 to 9 lbs.
481 C 6835—Standard

Size, In.	Each
2x1½	$ .98
4x1½	1.20
4x2	1.20

Extra Heavy
Shipping weight, 10 to 12 pounds.

Size, in.	481 C 6836
2x1½	$1.20
4x1½	1.45
4x2	1.45

Tapped Increaser
The small opening of these increasers is tapped for iron pipe thread.
Standard
Size 4 by 1½ in. Ship. wt., 7 lbs.
481 C 6848......**$1.62**
481 C 6848—Size, 4 by 2 in. Ship. wt., 7 lbs. **$1.68**
Extra Heavy
Size, 4 by 1½ in. Ship. wt., 9 lbs.
481 C 6849......**$1.58**
481 C 6849—Size, 4 by 2 in. Ship. wt., 9 lbs. **$1.63**

Adjustable Pipe Hangers
Ship. wt., 2 to 8 lbs.
State size.
81 C 7946

Size	Each
¾	10¢
1	11¢
1¼	12¢
1½	13¢
2	13½¢
2½	14½¢
3	16¢
3½	25¢
4	28¢

S Trap with Cleanout
Standard
Size, 4 inches. Shipping weight, 21 pounds.
481 C 6816......**$2.10**
Extra Heavy
Shipping weight, 30 pounds.
481 C 6817......**$2.65**

Running Trap with Vent
Standard
Size, 4 inches. Shipping weight, 15 pounds.
481 C 6825......**$1.90**
Extra Heavy
Size, 4-inch. Shipping weight, 37 pounds.
481 C 6826.... **$2.35**

Tapped T Branch
Side tapped for iron pipe thread. Shipping weight, 5 to 9½ pounds.
481 C 6784—Standard

Size	Each
2x1½ in.	60¢
4x1½ in.	85¢
4x2 in.	85¢

Shipping weight, 10 to 14 pounds.
481 C 6785—Extra Heavy

Size	Each
2x1½ in.	$ .72
4x1½ in.	1.05
4x2 in.	1.05

Tapped Sanitary Cross
Side outlet tapped for iron pipe thread.
481 C 6790—Standard

Size Inches	Ship. Weight	Each
2x1½	7 lbs.	$1.05
4x1½	10 lbs.	1.50
4x2	10 lbs.	1.50

481 C 6791—Extra Heavy

Size Inches	Ship. Weight	Each
2x1½	12 lbs.	$1.30
4x1½	13 lbs.	1.82
4x2	13 lbs.	1.82

Plumbers' Rope Oakum
50 pounds per coil.
Ship. wt., 55 pounds.
81 C 5646—Per pound..........$ .09
Per coil.......... 4.00

Our Heating Prices Help You Save

Monarch Boilers—Steam, Vapor, Hot Water

The Monarch Sectional Boilers represent the result of a half century's practical experience in the manufacture of heating apparatus. An extensive range of sizes renders their use applicable to practically all kinds of heating installations. Their convenience in installing, ease of operation and economy in fuel, are but a few of their many advantages which have won for them popular favor.

In the construction of these boilers special attention has been given to maintaining the proper ratio of grate to heating surface—which is a very important feature.

A glance at the sectional view will give a comprehensive idea of the Monarch Construction, showing the deep combustion chamber, sensitive waterways and enormous amount of heating surface presented to the action of the fire. These features combined with the long travel of the gases of combustion, utilize all the effective heat units, giving the highest efficiency with the most economical consumption of fuel.

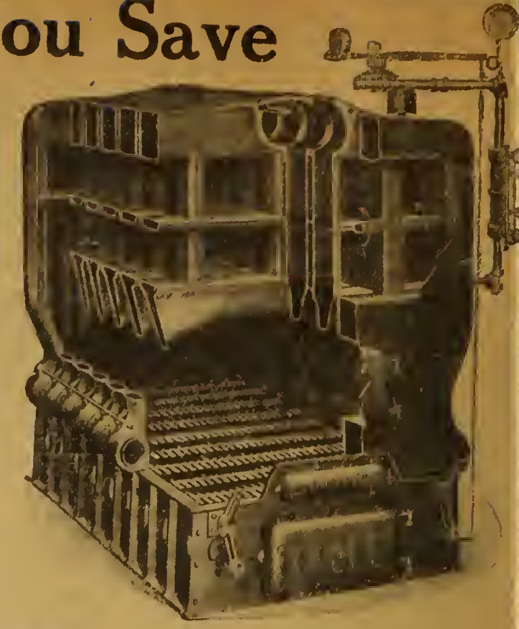
We show here, the push nipple type connection. This connection consists of a heavy machine turned, smooth tapered nipple, made of cast iron, and is held together by heavy tie rods. These connections are in no way exposed to the action of the fire. The boiler is very low in height, which is a very desirable feature for low cellars or basements.

All Monarch Steam and Water Boilers are made on the unit or sectional principle, and their capacity may be increased or diminished by adding or taking from them a number of sections.

Cored openings are provided in the Back Sections for the insertion of coil or Water Back for heating water for domestic supply.

The Fire Box of the Monarch Boiler is made of ample depth and capacity to allow for a sufficient amount of fuel to carry the fire for a long period without attention. A Water Section Bridge Wall is used in the larger boilers to reduce the grate areas to the proper ratio of heating surface.

All parts of the Monarch Boiler are accurately machined and fitted, and thoroughly tested to 100 pounds Hydrostatic pressure, before leaving the factory.



The Monarch Grates

The Grate Bars are divided into two sections, each operated by a separate lever, thus permitting agitating the whole body of fire or only half of it.

By removing the front panel of the ash pit, the entire grate frames can be withdrawn, giving free access to every part of the grate.

When adding sections to the boiler, new sections can be added also to the ash pit, eliminating the expense of an entire new ash pit—an excellent feature of the Monarch ash pit.

Easy to Clean

Large front and rear clean-out doors, give free and easy access to every part of the fire surface for cleaning.

Prices

Monarch Boiler Prices are subject to market changes. Write us if you wish our help when selecting a Monarch Boiler.

Monarch Boilers Shipped from Western Pennsylvania

Water Boilers

Article Number
(281 C 7823)

No. Sections	Cap. Rad Sq.Ft.	Size of Grate, Inches	Smoke Pipe In.	Ship. Wt., Lbs.	Price Each
4	1075	22x20	10	2040	$155.90
5	1400	22x26⅜	10	2390	192.50
6	1725	22x32¾	10	2750	228.00
7	2050	22x39⅛	10	3080	260.00
4	1975	28x24¾	12	3130	254.75
5	2625	28x33⅛	12	3710	325.00
6	3300	28x41½	12	4260	368.95
7	3950	28x49⅞	12	4810	432.50
8	4600	28x58¼	12	5360	482.00
9	5275	28x66⅝	12	5920	535.90
5	3975	40x33⅛	18	5870	436.80
6	4950	40x41½	18	6680	510.90
7	5925	40x49⅞	18	7500	588.50
8	6925	40x58¼	18	8320	660.75
9	7925	40x66⅝	18	9130	748.00
10	8900	40x75	18	9950	935.00
11	9900	40x83⅜	18	11000	1018.00
12	10900	40x91¾	18	11700	1110.50
13	11875	40x91¾	18	12400	1183.90
14	12875	40x91¾	18	13100	1265.00
15	13850	40x91¾	18	13800	1343.75

Height of Boiler, exclusive of trimmings, from 52 to 72½ inches.

The first four sizes of boilers have two 3-inch flows and two 3-inch return openings. All other sizes have two 5-inch flows and two 5-inch return openings.

$195.00 Heats a 5-Room House

Complete Sterling Windsor Installation
Clean Comfortable Economical Heat

A new, economical way to heat your home with hot water, without going to the expense of digging a basement. The **Sterling Windsor** Boiler may be placed on the same floor as the radiators, in any room of your home. It is small and compact, 48 inches high, and built in sections which permit it to be increased in size by the addition of other sections to meet any alterations in the home. It is of neat design and may be painted to match the furniture or color scheme of any room, making an attractive fixture. It is far more pleasing in appearance than any stove and is much easier to keep clean. Its simple operation and fuel economy added to its low cost make this heating system the ideal method for the average home.

How the Sterling Windsor Operates

The heating expands the water and it rises to the expansion tank located directly above the boiler. As the heated water leaves the boiler, cold water from the balance of the system flows in to replace it, thus starting a circulation which continues as long as there is fire in the boiler.

As the requirements of no two homes are alike it is impossible to exactly estimate the cost of installing a Windsor without a plan of your home.

Send us this information and we will gladly estimate the cost of installing a Windsor in your Home, Office or Shop.

Steam or Vapor Boilers

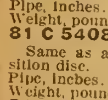
Article Number
(281 C 7824)

No. Sections	Cap. Rad. Sq.Ft.	Size of Grate, Inches	Smoke Pipe, In.	Ship. Wt., Lbs.	Price
4	650	22x20	10	2040	$177.50
5	850	22x26⅜	10	2390	214.00
6	1050	22x32¾	10	2750	250.50
7	1250	22x39⅛	10	3080	288.70
4	1200	28x24¾	12	3130	278.75
5	1600	28x33⅛	12	3710	352.25
6	2000	28x41½	12	4260	410.00
7	2400	28x49⅞	12	4810	467.50
8	2800	28x58¼	12	5360	525.00
9	3200	28x66⅝	12	5920	594.50
5	2400	40x33⅛	18	5870	467.50
6	3000	40x41½	18	6680	554.70
7	3600	40x49⅞	18	7500	639.90
8	4200	40x58¼	18	8320	725.50
9	4800	40x66⅝	18	9130	815.00
10	5400	40x75	18	9950	957.50
11	6000	40x83⅜	18	11000	1042.00
12	6600	40x91¾	18	11700	1130.00
13	7200	40x91¾	18	12400	1210.50
14	7800	40x91¾	18	13100	1300.00
15	8400	40x91¾	18	13800	1376.90

Height of Boiler, exclusive of trimmings, from 52 to 72½ inches.

The first four sizes of boilers have two 3-inch flows and two 3-inch return openings. All other sizes have two 5-inch flows and two 5-inch return openings.

Valves, Cocks, and Gauges



Brass Check Valve

Used in horizontal position only.

Pipe, in.	⅛	¼	⅜	½	¾
Wt., lbs.	⅛	⅜	½	⅝	1
81 C 5408	28¢	29¢	31¢	40¢	50¢

Pipe, inches	1	1¼	1½	2
Weight, pounds	1½	2¼	3	4¾
81 C 5408	70¢	98¢	$1.40	$2.10

Same as above except with renewable composition disc.

Pipe, inches	½	¾	1	1¼	1½	2
Weight, pounds	¾	1½	2¼	3½	5	8
81 C 5409	55¢	82¢	$1.10	$1.55	$2.15	$3.25

Genuine Jenkins Check Valve

Unconditionally guaranteed.

Size	Shipping Weight	Article No. 81 C 5437
½ in.	1 lbs.	$ .98
¾ in.	1½ lbs.	1.45
1 in.	2 lbs.	1.95
1¼ in.	3¼ lbs.	2.70
1½ in.	4½ lbs.	3.75
2 in.	7 lbs.	5.65

Vertical Brass Check Valves

Ground brass valve seat and disc.

Size	Weight	Art.No. 81 C 5413
⅜ in.	½ lb.	$ .48
½ in.	¾ lb.	.60
¾ in.	⅞ lb.	.78
1 in.	1¼ lbs	1.10

Brass Swing Check Valve

Brass disc hinged at the top. May be used also in vertical position. Shipping weights, ½ to 3 pounds.

Pipe, inches	⅜	½	¾
81 C 5410	80¢	90¢	$1.05

Pipe inches	1	1¼	1½	2
81 C 5410	$1.20	$1.65	$2.10	$3.05

Square Head Steam Cocks

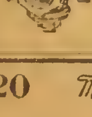
Solid brass, tight fitting ground key.

Pipe, inches	¼	⅜	½	¾
Ship. Weight, lbs.	⅜	½	¾	1¼
81 C 5416	34¢	40¢	50¢	68¢

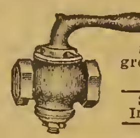
Pipe, inches	1	1¼	1½	2
Ship. wt lbs.	1½	2½	3¼	5¾
81 C 5416	95¢	$1.50	$1.95	$2.95

Three-Way Cock

Solid brass. Tight fitting ground key.



Pipe Size	Shipping Weight	81 C 5417
½ in.	1 lb.	$1.25
¾ in.	1½ lbs.	1.50
1 in.	3 lbs.	1.85
1¼ in.	4 lbs.	2.90
1½ in.	5 lbs.	3.60
2 in.	9½ lbs.	5.55



Brass Stop Cocks

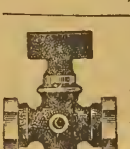
Solid brass. Rough finish. With ground key for iron pipe connection.
81 C 5423

Size Inches	Shipping Weight	Price Each
½	⅞ lbs.	55¢
¾	1¼ lbs.	72¢

Lever Handle Stop and Waste Cocks

Solid brass. For iron pipe.

Size	Shipping Weight	Article No. 81C5421
½ in.	1¼ lbs.	$ .62
¾ in.	1½ lbs.	.75
1 in.	1¾ lbs.	1.40
1¼ in.	2½ lbs.	2.20
1½ in.	3½ lbs.	3.75



T-Handle Stop Cocks

For iron pipe. Solid brass

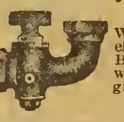
Pipe Size	Shipping Weight	Article No. 81 C 5420
½ in.	1 lb.	$ .62
¾ in.	1¼ lbs.	.75
1 in.	1¾ lbs.	1.40
1¼ in.	2½ lbs.	2.20

Compression Stops

Waste is controlled by a thumbscrew and operated only when it is desired to drain the piping. May be repaired. **State size.** Shipping weight, 1½ pounds.

81 C 5429—½ inch..........75¢
¾ inch..........80¢

Hydrant Cocks



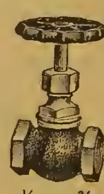
Solid brass, rough finish. With waste, and combination elbow, ground key. T handle Brass finish. Used in connection with shut off rod, for underground pipes.
81 C 5422

Size Inches	Shipping Weight	Price Each
¾	1¾ lbs.	$1.05
1	2 lb.	1.85

Hydrant Clamps

Tapped for ⅜-inch pipe. Malleable iron. Shipping weight, 3 ounces.
81 C 5424 .... 5¢

Globe and Angle Valves



Standard brass globe valve, tight fitting, ground brass disc and seat. **State size wanted.**

Pipe, in.	⅛	¼	⅜	½	¾
Ship. wt., lbs.	⅜	½	⅝	⅞	1½
81 C 5400	33¢	33¢	34¢	44¢	56¢

Pipe, in.	1	1¼	1½	2
Ship. wt., lbs.	2	3	4½	7½
81 C 5400	79¢	$1.10	$1.55	$2.35

Brass Globe Valve with renewable, composition disc.

Pipe, inches	¼	⅜	½	¾
Ship. wt., lbs.	⅞	1	1½	2⅛
81 C 5401	50¢	55¢	70¢	98¢

Pipe, inches	1	1¼	1½	2
Ship. wt., lbs.	3¼	4¾	6½	11
81 C 5401	$1.25	$1.75	$2.45	$3.90

Brass Angle Valve

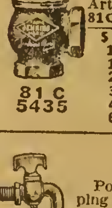
Same sizes and prices as Globe Valves.
81 C 5402—With ground brass disc and seat.
81 C 5403—With renewable composition disc.

Brass Gate Valve

Opens to full size of pipe for 150 pounds working pressure.
81 C 5406

Pipe Size	Shipping Weight	Price Each
½ inches	1½ pounds	$ .80
¾ inches	1½ pounds	.98
1 inches	2 pounds	1.35
1¼ inches	3½ pounds	1.75
1½ inches	4 pounds	2.40
2 inches	6½ pounds	3.50

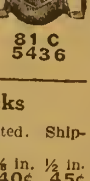
Genuine Jenkins Globe and Angle Valves



81 C 5435

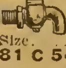
For steam, water, gas or oil lines. Suitable for working pressures up to 150 pounds steam and 250 pounds water. Unconditionally guaranteed. Ship. weights, 1½ to 12 pounds.

Art. No. 81C5435	Size Inches	Art. No. 81C5436
$ .95	⅜	$ .95
1.20	½	1.20
1.65	¾	1.65
2.10	1	2.10
3.00	1¼	3.00
4.20	1½	4.20
6.60	2	6.60



81 C 5436

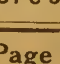
Brass Air Cocks



Polished. State size wanted. Shipping weights, 3 to 6 ounces.

Size	⅛ in.	¼ in.	⅜ in.	½ in.
81 C 5430	32¢	36¢	40¢	45¢

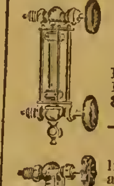
Brass Air Cocks



Polished. **State size wanted.** Shipping weights, 4 to 6 ounces.

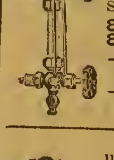
Size	⅛ in.	¼ in.	⅜ in.	½ in.
81 C 5428	16¢	18¢	20¢	24¢

Water Gauges



Polished Brass

Extra quality, with four guards. Pipe size, ½ inch. Size glass, ⅝ by 12 inches. Shipping weight, 4 pounds.
81 C 5564..............$2.60

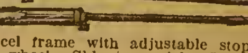


Complete with solid brass body, iron wheels. High quality glass tube and two guards to protect glass. Shipping weight, 3¼ pounds.

81 C 5562—Rough brass body.
81 C 5563—Polished brass body.

Pipe Size	Glass Size	Art. No. 81C5562	Art. No. 81C5563
⅜ in.	⅝x10 in.	$1.50	$1.85
½ in.	⅝x12 in.	1.65	2.05

With solid brass gauge cocks. For use in connection with our pneumatic water supply systems. May be used also on high or low pressure steam boilers, or any place where a water gauge is used. To avoid air leakage around stem upper fitting has no hand valve. Safety ball valve inside acts if glass should be broken. Gauge cocks are for ½-inch iron pipe thread. Glass, ⅝ by 12 inches. Shipping weight, 2¼ pounds.
81 C 5561..............$1.80



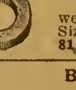
Glass Tube Cutter

Steel frame with adjustable stop. Hardened steel wheel. Shipping weight, 5 ounces.
81 C 5576.......................... 25¢

Glass Tubes for Water Gauges

Suitable for pressures up to 150 pounds.
Shipping weights, per dozen, 1¾ to 4½ pounds.

Article Number	Diam. In.		Length 10	Inches 12	14	16
81 C 5570	½	Each	$ .12	$ .15	$ .17	$ .20
		Doz.	1.15	1.35	1.60	1.80
81 C 5571	⅝	Each.	.13	.16	.18	.21
		Doz..	1.20	1.45	1.65	1.85
81 C 5572	¾	Each.	.15	.18	.20	.23
		Doz..	1.35	1.65	1.95	2.20

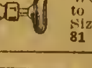


Rubber Gauge Gaskets

For gauge glasses. Shipping weight, per dozen, 3 ounces.

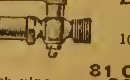
Size, inches	½	⅝	¾
81 C 5574—Doz.	9¢	10¢	11¢

Brass Gauge Cocks



Polished; with stuffing box. Wood handles. Shipping weight, 8 to 10 ounces. **State size wanted.**

Size	⅜ in.	½ in.	¾ in.
81 C 5434	58¢	63¢	78¢



Brass Tractor Cocks

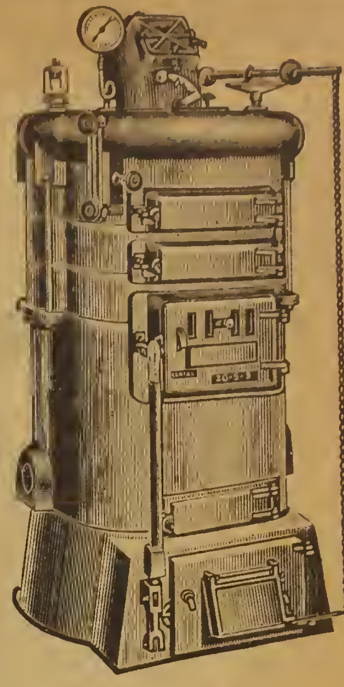
Polished. Shipping weights 10 to 16 ounces. **State size.**

81 C 5432
⅛-inch pipe.... 80¢ ¼-inch pipe. $ .90
⅜-inch pipe.... 85¢ ½-inch pipe... 1.15

See Page 594 for Stillson Wrenches

Hot Water and Steam Heating Equipment

Windsor Hot Water and Steam Boiler



A Boiler is the very heart of a successful Heating Plant and must be correctly proportioned to insure satisfactory heating results with a minimum amount of fuel.

Our Boilers are the results of long, successful experience in house heating. A Windsor installation will solve your heating problem for many years.

Highly efficient round type, made of heavy cast iron. Has large surface firepot set on a deep ashpit provided with improved rocking grates which are operated by a convenient lever. All sections are joined together by heavy tapered push nipples, assuring tight and firm joints. Large feed and ashpit doors making firing and cleaning an easy task.

Fuel is burned—not wasted—in this boiler. The maximum number of square inches of heating surface is directly exposed to the fire to insure the best heating results. One of the features of the Windsor Boiler design is the careful distribution of heating surfaces.

When the gases and smoke pass out through the smokepipe, nearly all the heat has been absorbed. There is just sufficient heat left to promote a good draft in the chimney.

The remainder has been absorbed by the water in contact with heating surfaces in the boiler and carried to the radiators located in the various rooms of the house.

All of our boilers are provided with deep firepots below the feed doors, so they will hold sufficient fuel to last at least 8 hours. Under favorable conditions our Windsor Steam and Hot Water Boilers need only be fired once every 10 hours. Long intervals between firing periods mean less work for the busy housekeeper.

All Windsor Boilers have coil openings in the firepot so coils for the purpose of heating hot water for domestic use may be installed. Separate gas or coal heaters are not necessary. This means an additional saving to Windsor boiler owners.

Steam boiler is fitted with diaphragm regulator for operating draft and check dampers, steam gauge, pop safety valve and water gauge. Both Steam and hot water boilers are furnished with shaker handle, flue brush and handle, scraper and poker.

281 C 7831—Hot Water Boiler

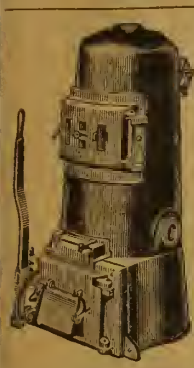
Radiation	Shipping Weight	Cash Price	Diameter Fire Pot	Above Fire Pot
700 square feet	750 pounds	$ 77.50	20 inches	2 sections
750 square feet	850 pounds	89.50	20 inches	3 sections
800 square feet	975 pounds	99.50	20 inches	4 sections
900 square feet	920 pounds	101.75	23 inches	2 sections
1000 square feet	1050 pounds	105.50	23 inches	3 sections
1100 square feet	1200 pounds	120.00	23 inches	4 sections
1200 square feet	1100 pounds	123.25	26 inches	2 sections
1300 square feet	1250 pounds	126.80	26 inches	3 sections
1400 square feet	1450 pounds	144.00	26 inches	4 sections
1500 square feet	1300 pounds	168.75	29 inches	2 sections
1600 square feet	1500 pounds	176.50	29 inches	3 sections
1750 square feet	1700 pounds	180.00	29 inches	4 sections
1850 square feet	1900 pounds	202.50	29 inches	5 sections

281 C 7832—Steam Boiler

Radiation	Shipping Weight	Cash Price
400 square feet	850 pounds	$ 97.50
450 square feet	950 pounds	112.00
500 square feet	1065 pounds	126.75
550 square feet	1050 pounds	130.50
600 square feet	1160 pounds	135.25
675 square feet	1300 pounds	149.75
750 square feet	1200 pounds	154.30
800 square feet	1350 pounds	160.50
875 square feet	1550 pounds	177.25
950 square feet	1500 pounds	199.50
1000 square feet	1700 pounds	211.25
1075 square feet	1850 pounds	225.70
1150 square feet	2050 pounds	239.50

Shipped from Western New York

Giant Windsor Tank Heater



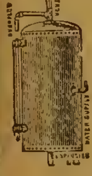
Used for heating water tanks for domestic purposes. Also adapted for heating garages, poultryhouses baptistrics, etc. May be used for small hot water heating plants where the radiation installed is from 100 to 150 square feet. Simple construction and easy to fire.

The tank capacity given in the table below, means the amount of water the two sizes will heat per hour, from 40 degrees to 200 degrees Fahrenheit. Burns any fuel.

Shipped from Western New York

Article Number	281 C 7878	281 C 7879
Diameter of grate	12 inches	14 inches
Height	38 inches	42 inches
Tappings	1½ inches	2 inches
Diameter of Smokepipe	5 inches	5 inches
Tank Capacity	250 gallons	350 gallons
Shipping weight	300 pounds	400 pounds
Price	$32.00	$46.60

Expansion Tank Eight Gallon Size



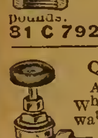
$6.25 For hot water heating systems. Strongly made and heavily galvanized. With brass gauge glass and guard rods. Connecting pipe and fittings not included. Capacity in gallons listed with sizes below. **State size.**

181 C 7905

Cap. Gallons	Size In.	Radiation	Ship. Wt.	Price Each
8	10x20	300 to 400 sq. ft.	36 lbs.	$6.25
10	12x20	400 to 500 sq. ft.	40 lbs.	6.65
15	12x30	500 to 600 sq. ft.	48 lbs.	7.35
20	14x30	600 to 700 sq. ft.	60 lbs.	9.85
26	16x30	700 to 900 sq. ft.	74 lbs.	10.90
32	16x36	1000 to 1300 sq. ft.	88 lbs.	11.50

Shipped promptly from Stock in Chicago

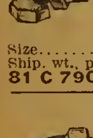
Heat Intensifier



Keeps constant pressure of about 10 pounds on the water in the system so that it may be heated to as high as 235 degrees without boiling. Easily attached to any hot water heating system. Will increase the heating capacity of any system where insufficient radiation has been installed. Shipping weight, 5 pounds.

81 C 7925.......................**$5.50**

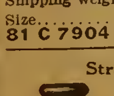
Quick Opening Radiator Valve



A half turn opens or closes the valve. When valve is closed, just sufficient water is allowed to circulate through the radiator to keep it from freezing. Valve is well made of solid brass, finely nickel plated. Wood wheel handle with nipple and union for connection, as shown in illustration. **State size wanted.**

Size	¾ In.	1 in.	1¼ In.	1½ in.
Ship. wt., pounds	1½	2½	2¾	3¼
81 C 7900	78¢	98¢	$1.35	$1.90

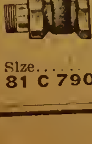
Union Elbow



Solid brass, nickel plated. Accurately ground ball joint union and brass nipple. Used for making return connection from hot water radiators. Shipping weights, ¾ to 2 pounds.

Size	¾ In.	1 In.	1¼ in.	1½ in.
81 C 7904	54¢	67¢	85¢	$1.10

Straightway Gate Valve



With union. Solid brass, highly nickel plated. Rising stem and wood handle. Has ball joint union and nipple, for making connection to radiator. Used where connection from the riser is made above the floor. Valve is made with double gate, each disc ground to fit valve seat. Shipping weights, 1¾ to 5½ pounds.

Size	¾ in.	1 in.	1¼ in.	1½ in.
81 C 7902	$2.10	$2.55	$3.25	$4.40

Hot Water Radiators Steam or Vapor

All radiators are tapped for 2-inch pipe, and bushed to take pipe as follows: **Hot water;** under 50 square feet, ¾ inch; 50 to 100 square feet, 1 inch; over 100 square feet, 1¼ inches. **Steam;** under 24 square feet, 1 inch; 25 to 60 square feet, 1¼ inches; 61 to 112 square feet 1½ inches; over 112 square feet, 2 inches. Other tappings may be ordered.

Three column 38-inch radiators are most common. For very narrow space use 2-column. For short space where more radiation is needed use 4-column. Prices on 1-column radiators given on request. In figuring length allow ½ inch at each end for bushings. The center radiator in picture at left is 3-column, 7 sections.

Prices and Sizes For Hot Water, Steam and Vapor Radiators.

To Find Length multiply the length of one section by the number of sections and add 1 inch to allow for bushings on ends.

To Find Heating Surface multiply the number of square feet for one section by the number of sections.

To Find Price multiply the price per square foot by the total number of square feet in entire radiator.

First, find out how many square feet of radiation you need. We recommend that you send us a plan of the room or rooms you wish to heat, showing doors, windows outside walls, type of construction (frame, brick, stucco, etc.) and let us figure out what you need.

Second, determine style of radiator wanted, by height and width of available space for placing radiator.

Third, find number of sections of that style needed to give the surface required, from which you can determine the price.

Note: Let us figure the radiation you need or the entire heating plant. We guarantee satisfactory results from our heating jobs.

Two Column Radiators — Each section 2½ inches long. Radiator 7¾ inches wide

Height in.	38	26	20
Sq. Ft. per section	4	2⅔	2
281 C 7884 For Steam Per Sq. Ft.	28½¢	34¢	39¢
281 C 7885 For Hot Water Per Sq. Ft.	30½¢	36½¢	41½¢

Ship. wt., square foot, 7 lbs.

Three Column Radiators — Each section 2½ inches long. Radiator 9½ inches wide

Height in.	38	26	22
Sq. Ft. per section	5	3¾	3
281 C 7882 For Steam Per Sq. Ft	27½¢	32½¢	35¢
281 C 7883 For Hot Water Per Sq. Ft.	28¢	33½¢	36¢

Ship. wt., square foot, 7 lbs.

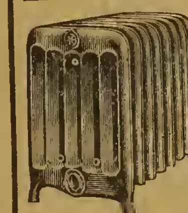
Four Column Radiators — Each section 3 inches long. Radiator 12 inches wide.

Height inches	38	26	22	18
Sq. Ft. per section	8	5	4	3
281 C 7886 For Steam Per Sq. Ft.	28¢	33½¢	36¢	40¢
281 C 7887 For Hot Water Per Sq. Ft.	28¢	33½¢	36¢	40¢

Shipping weight, square foot, 7 lbs.

All Radiators shipped from Western New York. Prices subject to Market Changes

Six Column Low Radiator



An attractive low pattern, cast iron Radiator used under windows or wherever the space is low.

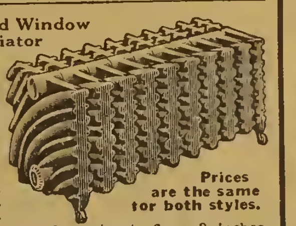
Tapped for 2-inch pipe and bushed to proper size. To determine height of radiator wanted, measure from floor to window sill. Order nearest height. Radiator should not project above window sill. Each section is 3 inches thick. Width of each section over all, 13½ inches. Distance from center of tapping to floor, 3 inches. In estimating length of radiator, allow ½ inch for bushing on each end. Shipping weight, per square foot, 7 pounds.

281 C 7876—For steam.
281 C 7877—For hot water.
Length of each section 3 inches.
Width of radiator 13½ inches.

Height	20 in.	17 in.	14 in.
Sq. ft. per section	6 sq. ft.	5 sq. ft.	4 sq. ft
Price, per sq. ft	38½¢	41¢	43½¢

Shipped from Western New York

Improved Window Seat Radiator



Specially adapted for use under window seats, stair hall seats, etc. Height, 14 inches; width, 13 inches; thickness of sections, 3 inches. Distance from center of tapping to floor, 3 inches. In estimating length of radiator allow ½ inch for each bushing. Shipping weight, per square foot, 7 pounds.

Prices are the same for both styles.

281 C 7872—For steam.
281 C 7873—For hot water.

No. of Sections	Length	Heating Surface
6	18 inches	24 sq. ft.
7	21 inches	28 sq. ft.
8	24 inches	32 sq. ft.
9	27 inches	36 sq. ft.
10	30 inches	40 sq. ft.

Per square foot.......................43½¢
Can be built up to 30 sections.
Shipped from Western New York

Composition Disc Corner Radiator Valve

For steam or water. Brass, nickel plated. Used where connection is made from riser to radiator above floor. Furnished either right or left hand. Illustration shows right hand valve. **State size and whether right or left hand.** Shipping weights, 1¾ to 5½ pounds.

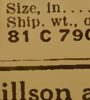
Size, inches	¾	1	1¼	1½
81 C 7903	$1.50	$1.90	$2.55	$3.25

Composition Disc Steam Radiator Valve

Made of solid brass nickel plated. Brass nipple, accurately ground ball joint union for connection to radiator. Special composition disc, closes over the valve seat. Sure closing under all conditions. **State size.**

Size	¾ In.	1 in.	1¼ In.	1½ in
Shipping weight	1¾ lbs.	2¼ lbs.	3 lbs.	4¾ lbs.
81 C 7901	$1.05	$1.30	$1.70	$2.15

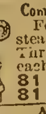
Nickeled Floor and Ceiling Plate



Nickel plated steel snap lock. To cover the opening around pipe on floor and ceiling. **State size wanted.**

Size, in.	¾	1	1¼	1½	2
Ship. wt., ounces	3	4	5	6	7
81 C 7907	7¢	8¢	9¢	10¢	11¢

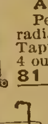
Compression Hot Water or Steam Air Valve



For releasing air from hot water or steam radiators. Brass, nickel plated. Threaded for ⅛-inch pipe. Shipping weight, each, 4 ounces.

81 C 7912—Valve only..............8¢
81 C 7915—Key only..............4¢

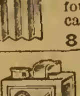
Automatic Steam Air Valve



Permits free escape of air from steam radiators. Adjustable. Brass nickel plated. Tapped for ⅛-inch pipe. Shipping weight, 4 ounces.

81 C 7911.......................**32¢**

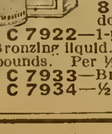
Windsor Air Moistener



Prevents dry air. Hangs over back of radiator. Gold bronzed. Holds four quarts. Large evaporating capacity. Shipping weight, 5 pounds.

81 C 7936.......................**68¢**

Bronzing Powder and Liquid



Shipping weights: Add 4 ounces to each pound.

81 C 7919—Gold powder, 1-pound can..............**$1.30**
81 C 7920 — Gold powder, 2-pound can..............**$2.55**
81 C 7921—Aluminum powder. ½-pound can.....**$ .71**
81 C 7922—1-pound can.......... **1.40**

Bronzing liquid. Shipping weight, per quart, 4 pounds. Per ½ gallon, 7½ pounds.

81 C 7933—Bronzing liquid, 1 quart.....**50¢**
81 C 7934—½ gallon..............**83¢**

Altitude Gauge For Hot Water Heating Plants

Indicates when sufficient water has been supplied to hot water heating systems. Japanned (black) steel case. Stationary and traveling pointer. Shipping weight, 3¾ pounds.

81 C 7918.............**$2.15**

Steam and Water Gauges

Japanned case. For stationary engines. Registers up to 200 pounds. With brass cock. Pipe size, ¼ inch. Shipping weights, 2 to 4 pounds.

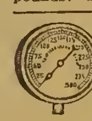
Size, inches	3½	4½	5
81 C 5550	$2.35	$2.65	$3.15

81 C 5554—For water supply systems. Registers up to 100 pounds. Shipping weights, 2⅛ to 4¼ pounds.

Size	3½ in.	4½ in.	5 in.
Price	$2.25	$2.55	$3.10

81 C 7917—For low pressure steam heating boilers. With brass cock. Registers up to 30 pounds. Shipping weight, 3¾ pounds..**$2.35**

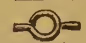
Farm Engine Gauge



Special Gauge with auxiliary spring for traction and farm engines. Size, 4½ inches with brass cock ⅜-inch pipe size. Japanned case. Registers 300 pounds. Always use a syphon with steam gauges. Shipping weight, 4 pounds.

81 C 5552.......................**$4.95**

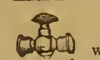
Steam Gauge Syphon



Made of iron tubing to secure water in spring of gauge. Should be used with all steam gauges. Pipe size, ¼ inch. Shipping weight, 8 ounces.

81 C 5556.......................**15¢**

Gauge Cock



Brass gauge cock. Suitable for steam, water or oil. For ¼-inch iron pipe connection. Shipping weight, 3 ounces.

81 C 5557.......................**25¢**

Hot Water Thermometer

Indicates temperature of water in hot water heating systems. Usually mounted on boiler. Also may be attached to one of the riser pipes at any convenient point in the system. Registers up to about 260 degrees Fahrenheit. Accurately tested and adjusted. Shipping weight, 1⅛ pounds.

81 C 7910.......................**$1.10**

Steel Wire Flue Brush

For cleaning steam or hot water heating boilers. Has 2-inch stiff wire bristles. Size of brush, 4 by 4½ inches. Threaded to take ¼-inch pipe handle. Shipping weight, 2 pounds.

81 C 7932.......................**95¢**

Asbestos and Wool Felt Pipe Covering

Prevents Freezing and Loss of Heat

Has a strong cloth covering and is furnished with 2 lacquered brass bands, for fastening. Use wool felt for hot and cold water pipe and asbestos for steam and hot water pipes. Prices below are for 3-foot lengths. Shipping weights, 1½ to 6 pounds, per length; Two kinds, wool and asbestos in 3-foot lengths.

Pipe In.	Hot and cold water pipes. Wool Felt: ¾ in. thick 3 ft. long	Wool Felt: 1 in. thick 3 ft. long	Steam and hot water plants. Air Cell Asbestos: ¾ in. thick 3 ft. long	Air Cell Asbestos: 1 in. thick 3 ft. long
	281C7926	281C7930	281C7927	281C79.8
½	24¢	28¢	24¢	30¢
¾	27¢	31¢	27¢	33¢
1	30¢	36¢	30¢	36¢
1¼	33¢	39¢	33¢	39¢
1½	36¢	42¢	36¢	42¢
2	39¢	45¢	39¢	46¢
2½	45¢	51¢	45¢	54¢
3	51¢	57¢	51¢	60¢
3½	54¢	63¢	54¢	65¢
4	65¢	75¢	65¢	78¢

Shipped from Factory in Chicago, Illinois

Asbestos Boiler Covering

Asbestos Cement to be mixed with water like plaster. For covering heating boilers and bends in pipes over which the regular molded covering cannot be applied. In 100-pound bags. Prices subject to market changes.

181 C 7931—Per 100 - pound bag.......................**$1.50**

See Page 594 for Stillson and Trimo Wrenches—At Special Low Prices

Improved Windsor Warm-Air Furnaces

Heavy Cast-Iron Radiator

$55.00

Leak Proof Joints

For Hard Coal, Soft Coal, Coke or Wood

Heats With Any Fuel

A Pipe Furnace System assures a positive circulation of warm air to all rooms, and such systems should be used where a house is of large proportions, having large rooms with high ceilings and small doors; in fact, in any house where it is not possible to create internal circulation.

For most economical operation, and to lengthen the life of the furnace, we recommend selecting a size in the capacities listed when using hard coal as fuel, the next larger size where soft coal is used, two sizes larger when wood is burned.

Of Simple, Sturdy Construction

Heavy Cast Iron Radiator. The radiator is of large proportions and is designed so that heat reaches every part of it. Every opportunity is taken advantage of to increase the amount of heating surface hoth in the radiator, firepot and dome sections which come in contact with the circulating air. By reason of our radiator construction, the smoke and gases must make a complete circuit before passing into the chimney. A great deal of heat is absorbed by the air circulating through the radiator and up into the living rooms that otherwise would pass up the chimney, as in the ordinary type of radiator.

Leak Proof Joints. The radiator, dome and firepot sections are joined together by means of deep, heavy tongue and groove joints, which are filled with our special asbestos furnace cement when the furnace is erected, making gas leaks an impossibility.

Heavy Firepot and Dome. The firepots are made in hoth single and double sections and are corrugated on the outside to increase the heating surface. The domes also are corrugated, and will not sag or warp when subjected to intense heat. The finest grade of heat-resisting iron is used in the firepot and dome castings. The wide throat or opening between the dome and the radiator, together with equal distribution of draft, makes impossible the explosion of unconsumed gases.

Improved Triangular Grates. These grates will burn any kind of fuel—coal, coke or wood. They are of an improved design which grind up any clinkers that may be formed. The extra surface ohtained by the triangular construction tends to keep the grates cool, thereby lengthening their life.

Casings. A heavy insulated galvanized iron casing is used. A lining of bright tin reflects the heat, increasing the heating capacity considerably. Between these two is a layer of heavy asbestos.

Water Pan. A large water pan in the casing provides moisture; by keeping it filled you will maintain a healthful quantity of moisture in the air.

Price includes casing, regulating dial, damper chain, shaker handle, check damper and water pan. Smokepipe not included.

Note: The top bonnet of furnace is furnished without any holes for pipes; these are to he cut as required, while being installed.

181 C 8014—Hot Water Heating Coil to fit. Shipping weight, 10 pounds. Each **$1.75**

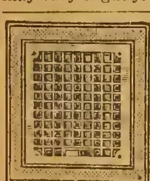
Weights and dimensions of furnaces are approximate and may vary slightly.

Prices and Dimensions on Windsor Warm-Air Furnaces

Order by Article Number	281 C 7985	281 C 7986	281 C 7987	281 C 7988	281 C 7989	281 C 8008
Diameter of firepot, inches	20	22	24	26	28	30
Heating capacity, cubic feet	13000	16000	23000	35000	47000	65000
Size of feed door, inches	9¾x12¾	9¾x12¾	10¼x13½	10¼x13½	11¼x13¾	11¼x13¾
Diameter of casing, inches	34	38	42	46	50	54
Height with casing, inches	58	60	63	67	72	73
Size of ash door, inches	12½x15½	13x12½	14x19¾	14¾x21½	16x23¼	16x24¾
Height of radiator, inches	10	11	11½	12½	13	13½
Diameter of smokepipe, inches	8	8	8	9	10	10
Ship. wt., including casing, about, lbs	750	950	1150	1325	1700	1800
Price	**$55.00**	**$65.00**	**$79.50**	**$98.00**	**$119.00**	**$139.00**
281 C 8016—Wood hurning grate plates	1.75	1.95	2.50	2.95	3.70	3.95

Shipped from Factory near Detroit or from Central Illinois, Saving You Freight by Shipping from Nearest Factory. Wood-burning Grates Shipped with Furnaces

Warm Air Register

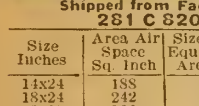


Of heavy cast iron. Improved shutters are operated by foot pedal. Illustration shows Register with border. Unless specified, no borders are furnished. Shipping weights: Registers, 10 to 13 pounds; borders, 5 to 12 pounds. **State size.**

Size Inches	Black Japanned: 281C8010 Register Only	Black Japanned: 281C8011 Border Only	Oxidized-Copper Finish: 281C8012 Register Only	Oxidized-Copper Finish: 281C8013 Border Only
8x10	$1.30	$ .98	$2.48	$2.18
9x12	1.66	1.30	3.15	2.80
10x12	1.90	1.38	3.48	2.98
12x15	3.55	2.30	5.50	4.25

Note—Larger sizes quoted on request.

Hardwood Cold Air Floor Face

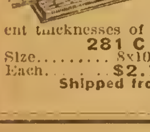


Used where inside cold air return system is adapted to a warm air heating system. Oak finish.

Shipped from Factory in Chicago
281 C 8200—State size.

Size Inches	Area Air Space Sq. Inch	Size Pipe Equivalent Area In.	Shipping Weight, Pounds	Price Each
14x24	188	16	10	$1.40
18x24	242	18	24	1.80
18x30	303	20	30	2.25
20x24	269	18	36	2.00
20x30	336	20	45	2.55
24x30	403	22	48	3.00
24x36	484	24	50	3.60

Combined Floor and Ceiling Register



Pressed steel. Used in connection with pipeless furnaces to admit heat to second floor rooms. Ceiling register white. Floor register Black Japanned. Adjustable to different thicknesses of floors. Ship. wt., 7 to 18 lbs.

281 C 8025—State size.

Size	8x10 in.	9x12 in.	10x12 in.	12x14 in.
Each	$2.75	$3.35	$3.95	$6.25

Shipped from Factory in Chicago

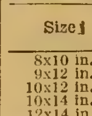
Fittings for Warm-Air Furnaces

Heat Regulator With Clock Attachment

Keeps the temperature at any desired degree, day and night, regardless of weather. As temperature tends to rise or fall the motor will shut off or open the draft and damper. Motor is controlled hy thermostat, mounted on a brass case, from living room wall. Clock attachment assures you of warm rooms in the morning, as it may be timed to open up the drafts at any predetermined hour. You may set it for any low temperature when retiring and then set the clock to throw it over to 70 degrees an hour or so hefore rising. Outfit consists of clockwork motor and crank, hall bearing pulley, damper chains, wire and electric dry batteries. Everything necessary to make a complete installation is included. Used for all furnaces and hoilers. Shipping weight, 30 pounds.

181 C 7899—With clock attachment **$28.75**
181 C 7898—Without clock attachment **24.25**

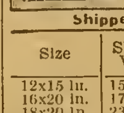
Baseboard Sidewall Register



Made of pressed steel. Equipped with shutters controlled by foot pedal. Deflector causes heat to emerge from register at an angle. Face may be removed for cleaning out register. **State size.**

Size	Shipping Weight	281 C 8153 Japanned Black	281 C 8156 Oxidized Copper
8x10 in.	3 lbs.	$1.25	$2.25
9x12 in.	4 lbs.	1.85	2.80
10x12 in.	5 lbs.	2.25	3.35
10x14 in.	6 lbs.	2.70	4.25
12x14 in.	10 lbs.	3.55	4.95

Iron Cold Air Face



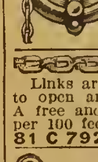
Made of cast iron, Japanned hlack finish. For use on cold air return pipe. Has no frame or shutters.

Larger sizes quoted on request.

Shipped from Factory in Chicago

Size	Shipping Weight	281 C 8015 Japanned Black	281 C 8017 Oxidized Copper
12x15 in.	15 pounds.	$ 1.80	$ 3.35
16x20 in.	17 pounds.	2.60	4.45
18x20 in.	23 pounds.	3.55	6.25
20x24 in.	30 pounds.	3.70	6.35
24x24 in.	35 pounns.	5.25	9.45
24x30 in.	38 pounds.	7.40	12.60
30x30 in.	40 pounds.	9.25	15.90

Damper Regulating Dial



Usually attached to door jamb and connected with furnace or boiler. Made of steel, attractively finished in oxidized copper. Diameter, face 4½ inches. Includes 12 yards of chain and 4 pulleys. Shipping weight, 1 pound.

81 C 7897 .... **$1.50**

Damper Chain

Links are solid, making it impossible for them to open and pull apart. Width of link, $\frac{3}{16}$ inch. A free and easy working chain. Shipping weight, per 100 feet, 2 pounds. Sizes, 2-0.

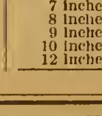
81 C 7923—Per foot .... **2¢**

Chain Hooks

For attaching chain to draft doors and regulators. Shipping weight, 3 ounces.

81 C 7914—Per dozen .... **10¢**

Smokepipe Dampers

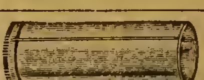


For regulating draft through the smoke pipe.

281 C 8059—State size.

Size	Shipping Weight	Each
7 inches	2½ pounds	35¢
8 inches	3 pounds	45¢
9 inches	4 pounds	60¢
10 inches	5 pounds	70¢
12 inches	6 pounds	85¢

Galvanized Smokepipe



Made of 26-gauge galvanized iron. Shipped nested. Improved patent lock seam needs only to be hammered down. Furnished in 2-foot lengths only.

281 C 7959—State size.

Size, inches	7	8	9	10	12
Ship. wt., 2 ft., lbs.	2¼	2½	3	3¼	3¾
Price, per ft.	24¢	26¢	27¢	30¢	38¢

Prices of larger sizes on request.
Shipped from Factory in Chicago

Galvanized Elbows

Adjustable to any angle. For making odd turns, as are occasionally encountered to overcome obstructions in hasements. Made of 26-gauge galvanized iron.

281 C 7961—State size.

Size	Shipping Weight	Price
7 inches	1¾ pounds	35¢
8 inches	2½ pounds	40¢
9 inches	3½ pounds	48¢
10 inches	4¼ pounds	60¢
12 inches	4½ pounds	84¢

Prices on larger sizes on request.

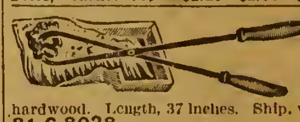
Adjustable Safety Thimble

Used in running warm air pipes or smokepipe through partition walls or up through floors. Adjustable to any thickness of floor or wall. Shipping weights, 1⅛ to 1¾ pounds.

281 C 8066—State size.

For pipe, ins.	7	8	9	10	12
Price, each	90¢	$1.20	$1.50	$1.80	$2.10

Improved Clinker Tongs



Of $\frac{7}{16}$-inch steel. Handles of hardwood. Length, 37 inches. Ship. wt., 4 lbs.

81 C 8028 .... **80¢**

Screw Pulley for Damper Chain

Attached to basement ceiling to hold and guide draft damper chain. Wheel size, 2 inches. Shipping weight, 4 ounces.

84 C 4430 .... **8¢**

Send for our Free Book of Wardway Homes

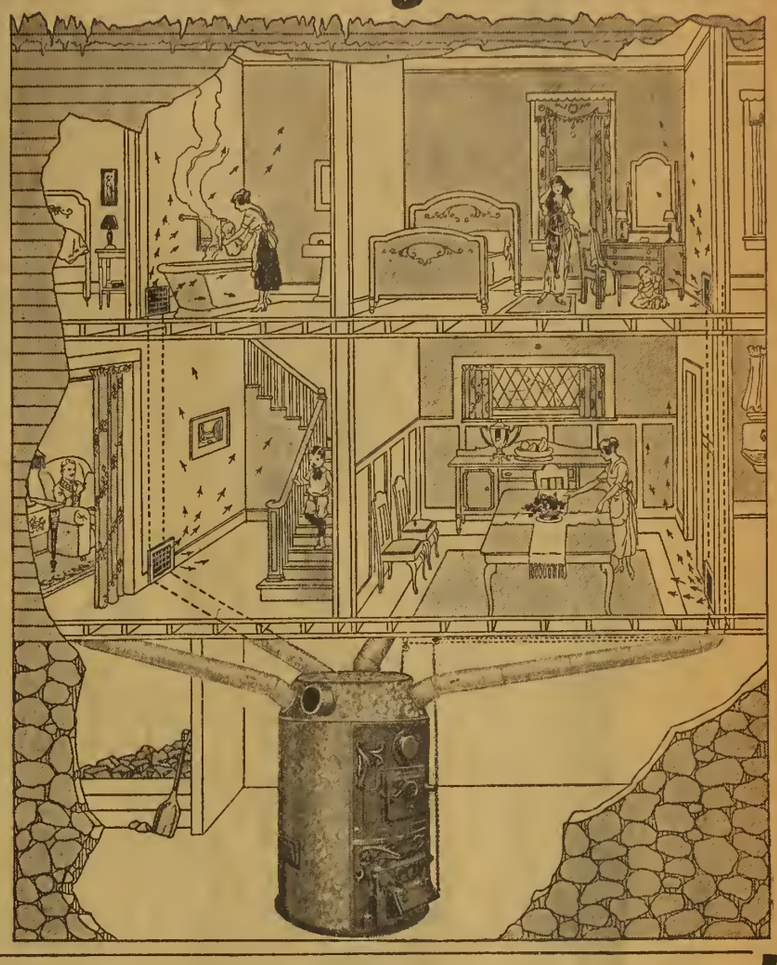
Lowest Prices We Have Ever Quoted On These High Grade Heating Systems

Once More Ward's Leads

AGAIN Ward's comes forward with a furnace offering which is one of the outstanding features of this catalogue—**the lowest prices ever quoted** on Ward's Pipe Furnace. Think what this means! Not only lower than last year's prices or those of two and five years ago, but lower than ever before. Quality has in no way been sacrificed to reach this new price level. In fact not only have we embodied the best features of last year's Windsor but we also have added many new improvements.

These prices are made possible only by our huge volume of business. Ward's enormous buying power and direct sales plan which excludes wholesalers, jobbers and retailers are the chief reasons for this large volume of business. Ward's policy in both buying and selling is a decided advantage to our millions of customers. It permits us to give values which otherwise would not be possible.

Much comfort is in store for you when you install a Windsor Pipe Furnace; comfort which you never have known before if your home has been heated by stoves. In volume and quality furnace heat excels, while in cleanliness and healthfulness there is no comparison as to which is the better method. Read below what some of Ward's customers have to say about Windsor Furnaces.



Accessories for Warm-Air Installation

Our stock of pipe, fittings and accessories for warm air installation is complete. The items shown on the opposite page represent but a small part of our entire line. Many items which we stock are not shown in this catalogue, so if there is anything you need in making your installation, which cannot be found here, write us and we shall be glad to fill your requirements.

Read These Letters From Our Customers

"I must let you know that I have the Windsor Warm Air Heating Plant in working order and it is just fine. Myself and the whole family are very much satisfied with it. We have never been so comfortable before and are not using as much fuel as before. I should have written to you long before this, but have been so busy and sort of neglected it. I installed the entire plant myself and everything works most satisfactorily and I thank Montgomery Ward & Co., gratefully.

I will recommend you to my friends."

Ed Huck;
1405 Central Ave.,
Wilmette, Illinois.

Printed with Mr. Huck's permission.

"I want to say the furnace surely does give satisfaction. I have given it a fair trial and am well pleased with it. I saved $65.00 on the furnace I purchased."

Henry G. Harris,
Belle Plaine, Ia.

Printed with Mr. Harris's permission.

"We have had our furnace set up 4 or 5 months now and it has given complete satisfaction, so much so that we recommended it to P. V. Miller of this town and he bought one from you also. We have not hurnt as much coal as some of our neighbors have running 2 stoves, a range and a heater and only keeping 2 or 3 rooms warm and we dried the plaster in our house and heated 5 to 9 rooms. If it gives as good satisfaction in its lasting qualities as it has with everything else, I will be more than satisfied and I cannot see why it should not do so."

P. M. Hall,
Arnolds Park, Ia.,

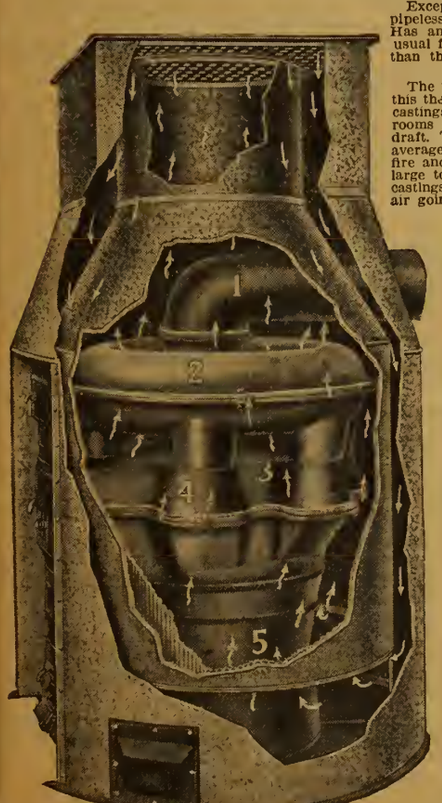
Printed with Mr. Hall's permission.

"I put in my Warm Air Furnace last fall and it is O. K. I can heat my house all over on the coldest day as warm as I want it and am sure I saved from $50 to $75 by having it sent from you. I installed it myself and it was easily done."

Arthur Hagedorn,
Bay Village, Ohio.

Printed with Mr. Hagedorn's permission.

Ward's Perfection Super-Heater



Exceptional values at these low prices. The most modern methods in pipeless furnace construction are employed in making the Supper-Heater. Has an exceptional heating capacity for the same fuel consumption as the usual furnace. Gives the best possible results. No furnace can heat better than the Perfection Super-Heater.

Constructed to Give the Greatest Heat from Your Fuel

The very best materials and the finest workmanship. Our aim is to make this the finest furnace of its kind. Operates like an ordinary furnace but the castings are so made that the maximum heat is given to the air going into the rooms and only enough heat passes into the chimney to give the necessary draft. The heating surface of the cast iron parts is half again as large as in the average furnace. The fire pot has straight sides admitting more air to the fire and insuring even combustion, and greater heat. The air passages are large to permit a free circulation of air which makes it impossible for the castings to overheat, preventing damage to the furnace and parching of the air going into the house.

Air Circulation and Super-Heating

The continual circulation of air through your rooms is through a combination floor register which discharges warm air through its center sections and draws the cold air from the floor into the heating space of the furnace. The design of the radiators in this furnace gives it double the amount of heating surface used in the average furnace. After the heat is created in the firepot, it rises to the top of the first radiator (Fig. 3) and is deflected down along the sides. It again rises up through the four arms (Fig. 3) and passes into second heat trap (Fig. 2). Here it travels horizontally along this chamber. After traveling the entire circle it passes up into Radiator No. 3 (Fig. 1) from which it passes to the chimney. Rapidly circulating air surrounds these heat traps and absorbs every possible heat unit before the hot gases escape to the chimney.

Grates—Extra heavy. Made in three sections, each one movable and reaching to the side of the firepot. There are no pockets for ashes to collect.

Ashpit—The ashpit is large and dustproof, provided with an exceptionally large door so it is possible to remove the ashes quickly. There is also a dust flue between the ashpit and firepot for the purpose of keeping all dust out of the basement when you are shaking the furnace.

Firepot—Extra heavy, one size all the way down and heavily corrugated, presenting the greatest possible amount of heating surface. All cup joints are large and well proportioned to insure a tight furnace even under the most severe firing conditions.

Firing Tools—With each furnace we include a bent-end poker, coal shovel and flexible handle clean-out brush.

Fuel—Super-Heater furnaces will burn hard coal, soft coal, coke or wood with equally good results. With each furnace we furnish a complete set of instructions; therefore you will experience absolutely no trouble in completing a first class installation.

	281 C 7980	281 C 7981	281 C 7982
Size, Number	1	2	3
Heating Capacity, Cu. ft.	20,000	25,000	30,000
Size of Feed Door	10x12 in.	12x13 in.	12x13 in.
Size of Smoke pipe	8	8	8
Shipping weight	1,000	1,250	1,465
Diameter, Inches	44	48	52
Cash Price	$125.00	$145.00	$165.00

Shipped from Factory in Southern Michigan

181 C 8168—Water heating coil to fit. For use with range boilers. Shipping weight, about 10 pounds. Shipped from Chicago Stock Price, extra..... $2.25

Cottage Windsor

Pipeless Furnace

$52.00

Was $63.65

Suitable for a Small Home

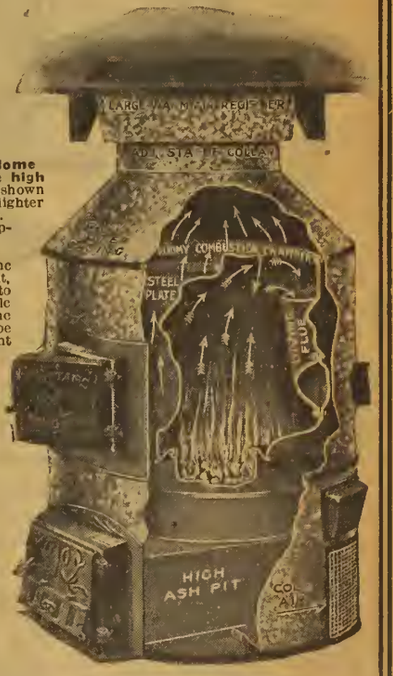
Not as efficient as the **high quality** pipeless furnaces shown on the next page being lighter weight and lower in price. Moderate fuel consumption.

Easy to Install

You simply place the furnace in the basement, connect the smokepipe to the chimney and cut a hole in the floor for the one register. Cold air may be taken from the basement or you may build a duct to take it from the outside or one of the rooms. The collar on top permits adjustment to a basement 6 to 8 feet high.

Durable Construction

Has a heavy cast iron firepot, steel radiator, roomy combustion chamber, triangular revolving grates and a galvanized steel casing. Large feed door for wood or coal. Cast iron water pan. Price includes floor register, damper, chain, pulleys, shaker and cement to make joints gas tight. Smokepipe not included.



Sizes and Prices of the Cottage Windsor

Number	Firepot	Heating Capacity	Shipping weight	Cash Price Each
281 C 7990	20 in.	9,000 Cu. ft.	750 Lbs.	$52.00
281 C 7991	22 in.	12,000 Cu. ft.	850 Lbs.	63.00
281 C 7992	24 in.	18,000 Cu. ft.	950 Lbs.	75.00

Furnaces Shipped from Factory near Detroit or from Central Illinois Saving You Freight by Shipping from Nearest Factory.

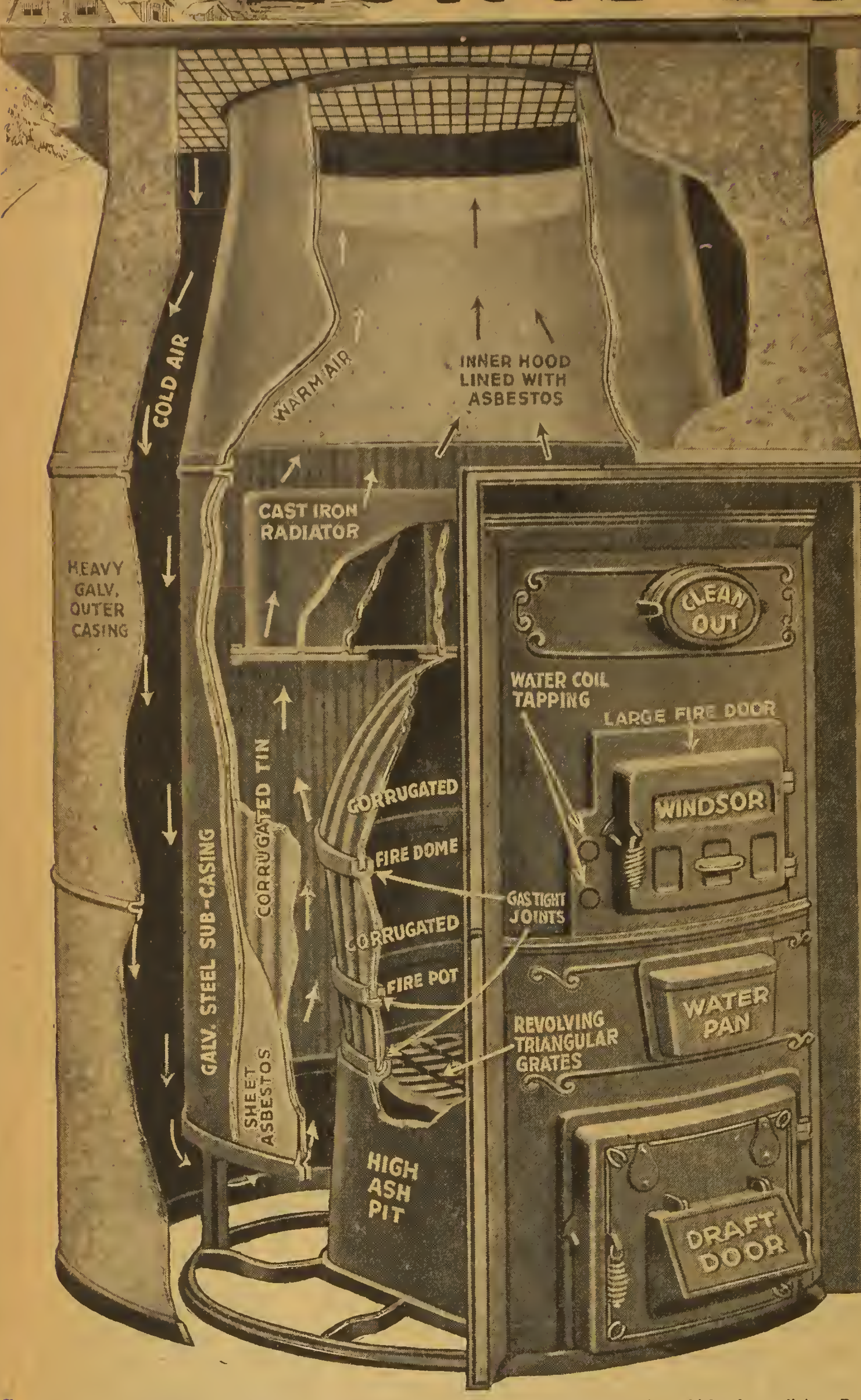
Water Heating Coil

Water Heating Coil, for use with a range boiler. Shipping weight, about 10 pounds.

181 C 8167—Price extra..... $1.75

For Improved Clinker Tongs, see Page 622

Lower Prices



$69.00

Compare With Last Year's Prices

18″ Size	Was $ 89.90	Now $ 69.00
20″ Size	Was 99.90	Now 79.00
22″ Size	Was 119.75	Now 97.00
24″ Size	Was 134.00	Now 113.00

Above are quoted the lowest cash prices at which we were able to sell Windsor Pipeless Furnaces during 1921. Compare them with today's new low prices.

PRICE is not always the main thing to consider when buying a furnace. Low fuel consumption, reliability and durability, all are matters of great importance. But, when a furnace with the reputation of The Windsor, possessing all three of these qualities, is offered to you at a price lower by many dollars, even than last season's bottom bargain figures, **then price is a matter of first consideration.**

Read carefully the specifications below—make every comparison and note the many exclusive Windsor features. Then too, see how easy it is to pay for this furnace. Our Time Payment Blank on the opposite page will give you all of these details.

Read These Specifications Carefully

The Radiator is of heavy cast iron which is more serviceable than steel because it will not warp or leak. Windsor radiators are properly proportioned, wide, deep and absolutely gas tight.

The Combustion Chamber is made of heavily corrugated cast iron; generous in size so that gases will be consumed properly before entering the radiator. Note in the picture the wide, deep, gas-tight cup joints.

The Firepot is of heavy cast iron with deep corrugations which increase the heating surface, thereby saving coal. A deep, gas-tight cup joint connects the two sections of the firepot.

The Revolving Triangular Grates are hung in pairs with two sides exposed to the air and the third side to the fire. This adds greatly to the life of the grates which will burn all fuels and hold a bright, clean fire.

The Doors are Large. An important feature. Easy to fire and easy to clean. They are carefully ground to fit closely, permitting no air to enter the furnace, except through the draft door. This assures absolute control over the fire.

The Ashpit is wide and deep, with a large door which makes the removal of ashes an easy task. The ashpit draft door is made large to allow the entrance of plenty of air for proper combustion. Plenty of cool air prolongs the life of the grates.

Casings. Inner and outer casings are of galvanized iron. The inner casing is lined with asbestos in addition to a lining of deeply corrugated tin, which reflects the heat and sends the warm air into the house instead of radiating it into the basement.

The Hood is adjustable for any basement up to 8 feet. The inner hood is lined with asbestos, keeping all heat within inner casing.

In all, this Windsor Pipeless is a better, heavier, more massive furnace than we ever have built before, and the prices are lower than they have been for many seasons past.

Things to Remember When Ordering

We recommend the sizes and capacities listed when burning hard coal, increasing to the next larger size for soft coal and two sizes larger for wood. Always use a wood burning grate plate when wood is burned. Make allowances for exposure to high winds, poorly fitted doors, windows, etc. Heating capacities shown are based on an ordinary slow burning fire and an outdoor temperature of zero. Make extra allowance if the temperature falls below zero. A furnace a size larger than is actually required is more economical in fuel and will last longer than one just large enough, which is fired hard in extremely cold weather. Be sure to order your furnace large enough.

The above picture is a sectional view of The Windsor Pipeless to show you the many individual features embodied in this new improved furnace. Note how the gas-tight cup joints are fitted; see the construction of the firepot; the heavy corrugations and the thick asbestos lining. Pay particular attention to the size and depth of the ashpit and generous dimensions of the cast iron radiator.

Sold on Easy Terms—Small Payment Down—10 Months to Pay—No Interest

Sizes, Article Numbers and Prices of Windsor Pipeless Furnaces

Article Number	281 C 7999	281 C 7995	281 C 7996	281 C 7997	281 C 7998
Diameter of Firepot, inches	18	20	22	24	26
Depth of Firepot, inches	11	10	11	12	14
Diameter of Outside Casing, inches	38	42	46	50	54
Diameter of Inside Casing, inches	30	34	38	42	46
Size of Feed Door, inches	9¾x12¾	9¾x12¾	9¾x12¾	10¼x13½	10¼x13½
Diameter of Smokepipe, inches	7	8	8	9	9
Size of Register, inches	24x27	28x28	30x30	32x32	36x36
Heating Capacity, cubic feet (rated on conservative basis)	10,000	12,000	15,000	25,000	35,000
Approximate ship. weight, pounds	800	1,200	1,350	1,500	1,600
Easy Payment Price	$79.00	$89.00	$108.00	$125.00	$144.50
Amount of first payment	15.00	15.00	20.00	25.00	25.00
Amount of Monthly Payment	6.40	7.40	8.80	10.00	11.95
Cash Price	69.00	79.00	97.00	113.00	125.00
281 C 8016—Wood Burning Grate Plates	1.55	1.75	1.95	2.50	2.95

Furnaces shipped from Factory near Detroit or from Central Illinois, saving you freight by shipping from nearest Factory

Prices include casing and water pan, check damper, damper chains and regulator dial, cement for joints and large floor register. Everything necessary to make a complete job but the smoke pipe. Ceiling registers to help heat isolated rooms on page 622.

Hot Water Heating Coil

181 C 8167—Water Heating Coil to fit. For range boiler. Shipping weight, 10 pounds. (Shipped from Chicago Stock). Each........ **$1.75**

Galvanized Smokepipe 2-Foot Lengths Only 281 C 7959			Galvanized Adjustable Elbows 281 C 7961			Cast Iron Smokepipe Damper 281 C 8059		
Size Inches	Ship. Weight Pounds	Per Foot	Size Inches	Ship. Weight Pounds	Per Foot	Size Inches	Ship. Weight Pounds	Per Foot
7	2	24¢	7	1½	35¢	7	2½	35¢
8	2½	26¢	8	2½	40¢	8	3	45¢
9	3	27¢	9	3½	48¢	9	4	60¢
10	3½	30¢	10	4½	60¢	10	5	70¢

Note—Sizes and measurements given in above table are approximate and may vary slightly.

Wood burning grates, smokepipe and elbows shipped from Factory with furnaces

Our low cash or Easy Payment prices make it possible for every home to enjoy the comforts and convenience of this modern and economical method of heating. Don't delay, send your order now—remember Montgomery Ward & Company's guarantee protects you.

Easy Payment Order Blank on Opposite Page

Sheet Steel is quoted at low prices on Page 604

Better Pipeless Furnaces

The Windsor Pipeless

Is the Kind of Furnace You Want

YOU want a furnace which will heat your house in any kind of weather, from the coldest winter days, to the milder spring and fall mornings and evenings—a furnace which may be regulated to give not only the proper amount of heat but the proper kind of heat.

You want a furnace which will outlast the building in which you install it and one which will give you reliable service as well as long service. You want a furnace which will do all of these things at the lowest possible cost of upkeep.

Because we purchase thousands of these furnaces and sell them direct to our customers, with only our one small profit added, we are able to offer the highest quality and most economical heating system at an attractively low price.

If you have waited for prices to reach a lower level, you will need wait no longer. Two years ago the lowest cash price at which we could sell a 20-inch pipeless furnace was $129.75; last year it was $99.90; now it is only $79.00. Market indications now are that the next change in price will be up and not down. Remember, too, that this low price is for a better and heavier furnace than we were able to offer before.

The Pipeless Furnace is the Easiest Heating System to Install

Complete and simple directions are furnished with this system. With the assistance of a helper, you can easily install a pipeless furnace in less than a day and do the job as well as a furnace man could do it. This will add further to the saving you make through our low prices.

A Clean House. Keeps ashes and dirt out of the living rooms. Heats all your rooms evenly, from one central heating plant and burns only a little more fuel than a stove. Does not have to be taken down in summer and does not take up space in your living room in winter. Requires the least attention of any heating system on the market. If you have no cellar, a pit large enough to hold the furnace and fuel is all you need.

We Have Sold Thousands of Furnaces Under Our Strong Guarantee of Satisfaction or Your Money Back and Have Received Many Enthusiastic Testimonials like the following—

Saved $50.00

"We now have furnace in and it is very satisfactory. I saved $50.00 on the outfit. I am well pleased with my plant."

Winfred Sutton,
15 West Market St.,
Iowa City, Iowa.

Printed with Mr. Sutton's permission.

Saved $75.00 to $100.00

"I saved from $75.00 to $100.00 on the furnace I bought of you, figuring on the price I would have had to pay if I had purchased it here and I have a better furnace."

E. F. Larimer,
Glendive, Mont.

Printed with Mr. Larimer's permission.

Would Not Have It Taken Out For Double the Cost

"In regard to the Windsor Furnace that I purchased of you last fall, I must say it is a dandy and would not have it taken out for twice what it cost me."

"I like it fine."

W. S. Powell,
Washta, Iowa, R. R. No. 1

Printed with Mr. Powell's permission.

Saved One-half

"Am well pleased with the working of the furnace. I believe that I saved about one-half by purchasing my outfit of your house."

L. K. Ainsworth,
Sherbourne, N. Y., Box No. 194

Printed with Mr. Ainsworth's permission.

No Trouble to Keep Warm

"In regard to the furnace which you furnished me, I installed the plant myself. It is what I call a good furnace, and it gives perfect satisfaction. We had a very cold winter last year and it was no trouble to keep the house warm. This furnace has certainly done all you claim for it."

J. Rohr,
Lyons, N. Y.

Printed with Mr. Rohr's permission.

Burns Hard or Soft Coal Equally Well

"I saved about $60.00 by ordering my furnace from you and it has proven very satisfactory. We heat five rooms easily at a total fuel cost of $23.50. My furnace burns soft coal just as well as hard coal, the only difference is that when you burn hard coal you keep the damper in the smoke-pipe closed and for soft coal you open it. The furnace has done everything you claim for it."

O. J. Cook,
Clyde, Ohio

Printed with Mr. Cook's permission.

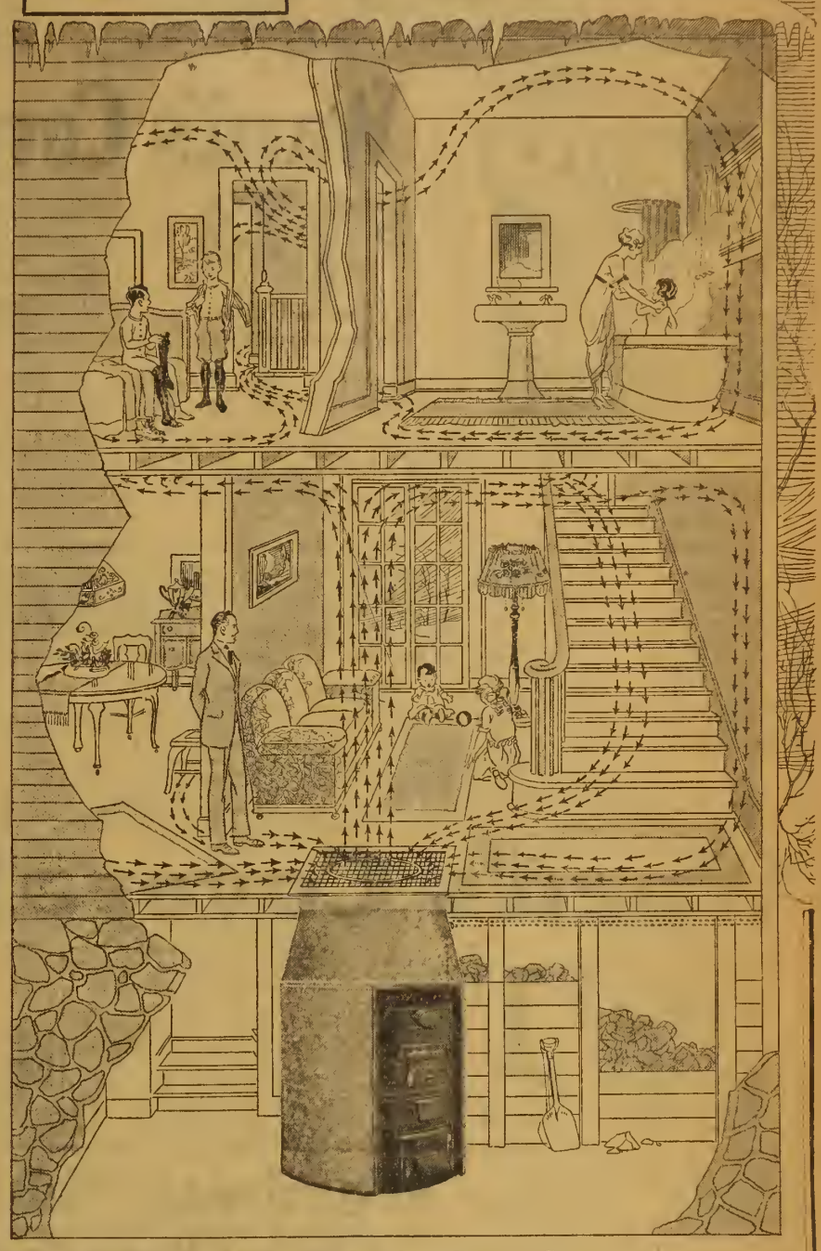
Saves 25 Per Cent on His Coal Bills

"I installed your furnace without any trouble; it is giving perfect satisfaction. We find, since the furnace has been installed, that we are using only about ¾ the coal we did before, to say nothing of the $40.00 saved on the installation."

Ray Leever,
Defiance, Ohio, R. F. D. No. 8

Printed with Mr. Leever's permission.

The picture below shows how effectively the warm air circulates in a home which is heated by a Windsor Pipeless Furnace.



Easy Payment Order Blank for Ordering Windsor Pipeless Furnaces or Sattley Cream Separators

Fill In This Side of Order Blank If Ordering Pipeless Furnace

MONTGOMERY WARD & CO., Chicago, Illinois

Please ship me _____
for which I will pay you $_____. Enclosed please find _____ (see opposite page for amount of first payment on size furnace you want) as first payment to apply on the account and will pay you $_____ when the articles are received, and a like amount on the same day of each month thereafter until the full purchase price is paid.

These articles will be installed in _____
(State kind of building and number of rooms)

at _____
(Give street number and place or other definite location of building.)

The legal title of the property in which these articles will be installed is in _____
Full correct name

The property _____ (is or is not) mortgaged. Amount of mortgage _____

Due date of mortgage _____ Value of land and building _____

Fill In This Side of Order Blank If Ordering Cream Separator

MONTGOMERY WARD & COMPANY, Chicago, Illinois

Please ship to me on THIRTY (30) DAYS' FREE TRIAL the following Separator upon the terms herein mentioned:

Number _____ Size _____ Price _____

I enclose herein $_____ as a guarantee of my good faith, which sum you may apply as a first payment on the purchase price, if I decide to keep the Separator, and which is to be returned to me if I decide not to keep the Separator.

Thirty (30) days after receipt of the Separator, I will send you a second payment of $_____ and a similar payment on the same day of each succeeding month until the full purchase price is paid.

You are to charge me no interest. Thirty (30) days is sufficient time in which to satisfy myself of the value of the Separator, and if I decide to return it I will write you within that time for return shipping instructions, and I will promptly return the Separator to you, in good order at your expense, and send you bill-of-lading, upon receipt of which you are to refund to me the amount enclosed herein, also transportation charges which I shall have paid.

Title of this Separator shall remain in you until it is fully paid for and until that time I have only the right of possession and use.

Fill In Lines Below Whether Ordering Either Pipeless Furnace or Cream Separator Date _____

My occupation is _____ Age _____ I am married or single _____ (state which)

I have lived at present address _____ years. If less than five years, give former address _____

My wife (or husband) joins me in signing below.

Write Signatures Below;

Post office _____ State _____

Your Signature _____

Street and No. or R. F. D. _____

Shipping Point _____ R. R. _____

Signature of wife or husband _____

Please give references below. Banks or business houses preferred

	NAME	BUSINESS	ADDRESS
1			
2			
3			

"I Know Our Paint is Good Because We Make It Good"

EDWIN E. CLUFF
For the past eight years manager of Ward's Paint Department. He invites you to visit our Big Paint Factory in Chicago.

"I WISH it were possible for each of our customers to make a personal visit to Ward's Paint Factory, so they could see for themselves the care we take in the preparation of every gallon of paint we sell.

"Ward's paints, although low in price, contain only good materials. The mixing is carefully done so the paint will cover a large area and the colors will last.

"Take our No. 11 house paint, for instance. By referring to the formula on this page you will notice that this paint contains only pure linseed oil, white lead and the necessary ingredients to insure a good product. We do not use water or fish oil, as these materials would injure the lasting qualities.

"We have been making good paint for years, and every gallon you buy from us is guaranteed. We stand back of it for quality, service and for wear. We could not give our that kind of a guarantee unless we knew the would please you.

"When you send us your order you may assured it will receive prompt attention, and want any special information regarding your problems, do not hesitate to write us and the fit of our experience will be yours."

Edwin E. Cluff,
Manager, Paint Departme

Ward's Coverall House Paint

TRADE MARK

$1.73 A Gallon
In 50-Gallon Barrels

Ward's Standard, Guaranteed House Paint—the kind our customers have been using for years. Thoroughly reliable and the best paint we know of for the money. The only reason we can sell it so low is that we make it ourselves, and sell direct to you without any middlemen's profits. Our "Money Back Guarantee" with every gallon purchased.

Paint to protect your property. Keep in good condition and postpone repairs.

Don't put off painting until next spr Paint NOW and protect your home f weather wear this winter. Fall is an ideal for painting. Many experts consider it an more favorable time than spring. Paint N —and use Coverall.

Coverall House Paint is made from thoroughly reliable and dependable materials. (See formula listed at the left.)

It spreads well, covers thoroughly, looks good, is hard drying and long wearing. It also has a large covering capacity—1 gallon covers 250-300 square feet, 2 coats. When you consider this point, it makes Coverall less expensive than ever. Because it goes farther—you need less paint to complete the job.

Protects—Preserves—Increases Value

Coverall's tough, durable film shields from the hot sun, sheds the soaking rain, keeps the surface sound, watertight—and safe from rot and decay. Its fine, attractive finish so improves the appearance of your house that it increases its value. Your house is worth more painted with Coverall.

No Experience Needed to Paint with Coverall

When you use Ward's Coverall you can do your own painting—and you can do it well. Ward's Coverall is so carefully mixed and thoroughly ground in our factory that it is all ready to use.

Coverall House Paint is ready mixed and ready to apply. Full directions on each can. Ordinarily, two coats are sufficient; but where the surface is in very bad condition we recommend three. On new work or where the old paint is practically gone, it is necessary to thin the first coat down with 1 pint of Turpentine and 1 pint to 1 quart of Raw Linseed Oil to each gallon of paint. Write us for lowest prices on best quality Turpentine and Pure Linseed Oil.

The Formula of Coverall House Paint
(No. 11—Outside White)

	Per Cent
Lead Sulphate	20.2
Zinc Oxide	13.5
Magnesium Silicate	12.8
Calcium Carbonate	7.5
Barium Sulphate	6.8
Silica and Silicates	3.4
Linseed Oil	30.0
Japan Drier	5.8
Moisture (None)	0.0
	100.0

Note.—The above formula is by weight only. By volume, over 50 per cent of the liquid is Pure Linseed Oil.

Choice of White, Black and 30 Colors. Make your selection from th below, or refer to our last spring Catalogue No. 96, where the color cards are sh or write for color cards. It is not necessary, however, to see the colors before o ing, as the names below clearly indicate the color.

Be Sure to State Color Wanted.

10—Inside Gloss White.	35—Pale Gray.	17—Maroon.
11—Outside Gloss White.	62—Pure Gray.	13—Cherry Red.
22—Black.	54—Deep Gray.	64—Dark Fawn.
57—Ivory.	55—Blue Lead.	63—Pea Green.
24—Cream.	33—Light Slate.	45—Lettuce Green.
27—Colonial Yellow.	65—Azure Blue.	47—Sea Green.
29—Canary Yellow.	66—Deep Blue.	70—Willow Green.
12—Light Tan.	20—Buff.	44—Moss Green.
16—Tan.	25—Terra Cotta.	42—Blind Green.
14—Dark Tan.	41—Light Brown.	69—Gray Stone.
48—Pink.	40—Brown.	31—French Drab.

Sizes and Prices of Coverall House Paint

275 C 7715	50-gallon barrel. Per gallon	$1
275 C 7714	25-gallon barrel. Per gallon	1
175 C 7713	5-gallon can. Per gallon	1
475 C 7712	3-gallon can. Per gallon	1
575 C 7711	1-gallon can	1
575 C 7710	½-gallon can	
575 C 7709	1-quart can	

Shipping weight, per gallon, 15 pounds
Barrels and Half Barrels Shipped from Chicago Paint Plant
Other Sizes Shipped from Stock in Chicago

Ward's Coverall Barn Paint

TRADE MARK

$1.12 A Gallon
In 50-Gallon Barrels

A genuine mineral Barn Paint with an extra tough, durable film. Just the paint for keeping your barns, cribs and other buildings in prime condition and protecting the money you have invested in them.

Manufactured in our own factory from weather and wear resisting mineral pigments and oxides, ground by heavy machinery and thoroughly mixed with the necessary linseed oil, driers and other essentials.

Average Covering Capacity
250 square feet per gallon, two coats

Remember this in figuring the cost of your paint. Coverall's large covering capacity saves you money because the paint goes farther. You need fewer gallons to complete the job.

Choice of four colors. See your last catalogue or write for color cards.
No. 159—Gray. No. 157—Red.
No. 150—Yellow. No. 155—Maroon (Dark Red)
Be sure to state color wanted.

Sizes and Prices

275 C 7724	50-gallon barrel. Per gallon	$1.12
275 C 7723	25-gallon barrel. Per gallon	1.16
175 C 7722	5-gallon can. Per gallon	1.24
475 C 7721	3-gallon can. Per gallon	1.29
575 C 7720	1-gallon can	1.32

Shipping weight, per gallon, about 15 pounds
Barrels and half barrels shipped from Chicago Paint Plant. Barrels, half barrels and 5-gallon cans shipped from New York Warehouse. If requested on order

Wardway Vehicle Paints

Wardway Auto Enamel

A special Hard Drying Enamel, made for this particular purpose. Bright, glossy finish which resists heat and cold and withstands frequent washings.

Ready to use. Not necessary to remove the old finish. Simply spread it on like ordinary enamel. It will dry in a few hours' time. Full directions on the can.

State color wanted.

163—Black. 169—Carmine.
162—Chrome Yellow. 157—Wine. 158—Gray.
167—Royal Blue.
159—Brewster Green.

75 C 7810	½-pint can	$ .26
75 C 7811	1-pint can	.45
575 C 7812	1-quart can	.80
575 C 7813	½-gallon can	1.50
575 C 7814	1-gallon can	2.90

Shipping weight, per gallon, 15 pounds. For White Auto Enamel, see below

Paint Your Ford for $1.98

No experience needed to paint your Ford with this enamel. You can do it yourself in an afternoon and enjoy the job. Our special outfit includes everything you need.

One quart Black Auto Enamel.
Half pint Radiator Enamel.
One Varnish Brush; black Chinese bristles; width, 2 inches.

We also include one package No. 1 Steel Wool and one pint of Top and Seat Dressing with this outfit.

475 C 7808—Outfit complete **$1.98**
Shipping weight of outfit, about 10 pounds

Wardway Wagon and Implement Paint

A tough, durable Paint for use on wood or iron. Keeps wood parts of wagons and implements from swelling or shrinking and protects the metal parts from rust and decay. A little of this paint will postpone many repairs and perhaps save you the cost of a new wagon or implement.

Tough, durable film with exceptional covering qualities. Dries with a bright attractive, glossy finish which will resist weather wear.

State color wanted.

No. 171—Black.
No. 172—Yellow. No. 173—Coach Red.
No. 168—Deep Blue. No. 170—Wagon Green.

75 C 7815	1-pint	$ .42
575 C 7816	1-quart	.75
575 C 7817	½ gallon	1.40
575 C 7818	1-gallon	2.70

Shipping weight, per gallon, 15 pounds

White Auto Enamel

For painting auto wheels, radiators, trimmings or body.

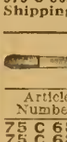
75 C 7845	½-pint can	$ .36
575 C 7847	1-quart can	1.12
575 C 7849	1-gallon can	4.20

Shipping weight, per gallon, 15 pounds

Automobile Varnish

A high gloss Finishing Varnish to use on autos and carriages. Its brilliant luster gives a bright new appearance to the car. Spreads easily and dries free from dust in about six hours. Hardens so car may be used in two or three days. It will not darken or discolor the daintiest of shades or striping underneath. Shipping weight, per gallon, about 11 pounds.

75 C 8690	1-pint can	$ .42
575 C 8691	1-quart can	.79
575 C 8692	½-gallon can	1.48
575 C 8693	1-gallon can	2.75

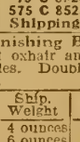


Gear Varnish

A special varnish for finishing running gears, wheels and other parts which need extreme protection. Long wearing.

75 C 8694	1 pint	$ .38
575 C 8695	1 quart	.72
575 C 8696	½ gallon	1.43
575 C 8697	1 gallon	2.68

Shipping weight, per gallon, 11 pounds



Striping Bronze

A pale gold striping bronze excellent for trimming on autos and carriages. Use it on any part—body, wheels or radiator. It is sure to please no matter where it is applied. To prepare: Mix about 6 ounces of Bronze to 1 pint of Ward's Automobile Varnish.

75 C 8524	1-ounce package	$ .20
575 C 8525	1-pound can	2.75

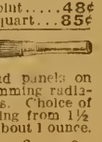
Shipping weights, 2 oz. and 1¼ lbs.

Auto Top Dressing

For brightening and renewing auto and carriage tops and cushions, or traveling bags. Ward's Auto Top Dressing waterproofs, and does not harden mohair, leather or imitation leather.

Ship. weight, per quart, 3 lbs.

75 C 8710	1 pint	48¢
575 C 8711	1 quart	85¢



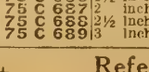
Wagon and Implement Varnish

Many progressive farmers are using this special Hard Drying Varnish as a protection against rust and wear. A common practice is to give the wood parts of all implements at least one coat every season.

It is a bright varnish and dries with a bri gloss finish. Has a good body. Sets dust in from five to six hours. Specially adapted outdoor use.

75 C 8702	1-pint can	$
575 C 8703	1-quart can	
575 C 8704	½-gallon can	1
575 C 8705	1-gallon can	2

Shipping weight, per gallon, 11 pound



Auto Refinishing Brush

Rubber set oxhair and black Chinese bristles. Double thick. Chiseled edge.

Article Number	Width	Bristles	Ship. Weight	Each
75 C 686	1½ inches	1⅝ inches	4 ounces	$1.35
75 C 687	2 inches	1¾ inches	6 ounces	1.85
75 C 688	2½ inches	1⅞ inches	8 ounces	2.30
75 C 689	3 inches	2 inches	10 ounces	2.95

Dagger Stripers

Special Brush for making stripes and panels on automobiles and carriages. Fine for trimming radiators, wheels, and for initials on car doors. Choice of four sizes: 0, 1, 2, 3, with bristles ranging from 1½ to 2 inches in length. Shipping weight, about 1 ounce.

Size	0	1	2	3
75 C 408	20¢	23¢	26¢	30¢

Good Oil at Low Prices

See Page 565 for our low prices on Rum High Grade Lubricating Oils for autos, tractors and gas engines.

Wardway House Paint

TRADE MARK

Recommended for the Finest Homes

IHE longer you postpone painting your house, the more money you lose. Because of the delay you will require more paint, and while you wait r house deteriorates more and more from exposure to the weather.

ow is the time to paint. Do it this fall and your home will be protected n weather, wear and decay during the long, cold winter months.

emember, we manufacture all of our paints according to our own specifica-. Therefore every gallon is absolutely orm. When you paint your home with d's Paints you will be thoroughly pro-ed by Ward's 50 year old guarantee of faction.

ade from a Special Formula

r paint is made from a special formula which is the t of our long experience and skill in manu-ring good paint. The white lead, zinc, linseed nd other materials in Wardway House Paint arefully selected. We use sublimed White for example, and every item in the time tested ula is chosen for a purpose.

tra Large Covering Capacity

One Gallon Will Cover 250 to 350 Square Feet, Two Coats

is is an extra large amount of surface for a good to cover, yet Wardway Paint covers it thor-ly; not one coat, but two.

member this in figuring the cost of your . Buy according to the amount of surface it cover instead of the price per gallon, alone. n you use paint which spreads better and goes er, you do not need as many gallons.

rdway House Paint is ready mixed and ready to . Full directions on can. Ordinarily, two coats are ient; but where the surface is in very bad condition ecommend three. On new work or where the old is practically gone, it is necessary to thin the first with 1 pint of Turpentine and 1 pint to 1 quart of Linseed Oil to each gallon of paint. Write us for t prices on best quality Turpentine and Pure ed Oil.

Choice of White, Black and 30 Colors

Make your selection from the list below or refer to our last spring Catalogue No. 96, where the paint colors are shown, or write for color card. It is not, however, necessary to see the colors before ordering, as the names below clearly indicate the color.

Be sure to state color wanted.

10—Inside Gloss White. 11—Outside Gloss White. 22—Black.

57—Ivory.	20—Buff.
24—Cream.	25—Terra Cotta.
27—Colonial Yellow.	41—Light Brown.
29—Canary Yellow.	40—Brown.
12—Light Tan.	17—Maroon.
16—Tan.	13—Cherry Red.
14—Dark Tan.	64—Dark Fawn.
48—Pink.	63—Pea Green.
35—Pale Gray.	45—Lettuce Green.
62—Pure Gray.	47—Sea Green.
54—Deep Gray	70—Willow Green.
55—Blue Lead.	44—Moss Green.
33—Light Slate.	42—Blind Green.
65—Azure Blue.	69—Gray Stone.
66—Deep Blue.	31—French Drab.

Sizes and Prices of Wardway House Paint

275 C 7706—50-gallon barrel. Per gallon	$2.63
275 C 7705—25-gallon barrel. Per gallon	2.66
175 C 7704— 5-gallon can. Per gallon	2.74
475 C 7703— 3-gallon can. Per gallon	2.77
575 C 7702— 1-gallon can	2.80
575 C 7701—½-gallon can	1.44
575 C 7700— 1-quart can	.75

Shipping weight, per gallon, about 15 pounds
Barrels and half barrels shipped from Chicago Paint Plant. Barrels, half barrels and 5-gallon cans will be shipped from New York Warehouse, if requested on order.

$2.63 A Gallon
In 50-Gallon Barrels

The Colonial house pictured above is our "Harvard"—a beautiful Wardway Home at an exceptionally low price.
See Page 633.

ead What Our Customers Say About Our Paints

Cheaper and Better Quality

I think your paint is an extra good paint for price. It would have cost at least $1 per gallon e here."
Sidney Armstrong, Magazine, Ark.

Likes Our Paint Best

For the past year I have purchased paint and nishes from you. I have used other makes but ot like them as well as yours."
Rev. G. H. Carpenter, Mt. Holly, N. J.

Saved Buying from Us

The paint I bought from you this spring the best paint I ever used. I figured I saved gallon buying direct from you."
F. C. Richter, LaPorte, Ind.

Printed with permission of customers

How to Measure Your House For Painting

Coverall and Wardway House Paints are noted for the large amount of surface one gallon will cover.

To figure how many gallons you need for painting your house, first figure the number of square feet of surface to be painted. Add the length of the four sides together and multiply by the height. For example, take a house 30 by 40 feet, 20 feet high, as shown at right.

Front	30 feet
One side	40 feet
Other side	40 feet
Rear	30 feet
Multiply by height	by 20
Gives surface to be covered	2800 square feet

Divide the total number of square feet to be covered by 300 which is the average number of square feet one gallon will cover. The result will show the number of gallons needed. Allow a little extra—especially if on new lumber. Allow about one-quarter extra for trimming.

To Measure Your Roof for Painting

Multiply width of the house by the length and add one-half, which will give you approximately the number of square feet in the roof. Divide by the number of square feet 1 gallon will cover as given in the description of the kinds of paint you are ordering.

These Are Only a Few of Many Letters Received

Looks as Good as It Did Last Spring

"I am very well pleased with the paint I got for my store. Put it on and has been on a year and looks just as good as it did last spring when it was first put on."
Mrs. Emma Kuehl, Breed, Wis.

Paint Wears Long as Any I Ever Used

"Your paint wears as long as any paint I have used."
G. H. Fornwalt, Kingman, Kan.

No Painter Required

"It does not require a professional painter to do a good job with your paint."
Alf Ericson, Stanhope, Iowa.

Printed with permission of customers

Wardway Creosote Shingle Stain

For either shingle roofs or sidings. A beautifully colored stain and wood preservative in one. Colors the shingles and at the same time protects them from weather wear and decay. Manufactured in our own paint factory and contains refined creosote oil, one of the best wood preservatives known. Penetrates the wood, makes shingles last longer. Wardway Stain gives that pleasing "mottled" appearance.

Easy to use. Brush it on with an ordinary paint brush, or if the house is new, dip the shingles two-thirds their length in a tank or trough filled with the stain. Brushed on, 1 gallon covers 100 square feet, two coats; 2½ gallons will treat 1,000 shingles, dipped two-thirds their length.

Choice of four popular colors. (See list below.)

Colors of Wardway Shingle Stain

512—Red. 516—Grass Green.
500—Bungalow Brown. 514—Dark Green.

Be sure to state color wanted.

Shipping weight, per gallon, about 12 pounds
Barrels Shipped from Chicago Paint Plant

5 C 7763—50-gal. barrel. Per gal.	76¢
5 C 7762—25-gal. barrel. Per gal.	82¢
5 C 7761— 5-gal. can. Per gal.	88¢
5 C 7760— 1-gallon can	90¢

Wardway Waterproof Stucco Paint

A high grade, durable paint for stucco, brick or cement buildings. Not a cheap, temporary "whitewash" affair, but a thoroughly reliable **weather-resisting coating for permanent work.** Made expressly for this class of work and guaranteed.

Wardway Stucco Paint is extra durable. It not only retards decay by protecting the stucco from weather wear, but also "seals" the surface, preventing the water from spotting the walls. Renews old stucco and preserves new. Is a protection against dampness, seepage and decay. Also recommended for concrete fence posts, brick walls, basement walls (inside and outside), concrete and cement floors. One gallon covers about 100 square feet depending on the condition of the surface.

Choice of white and four colors. (See list below.)

Colors of Wardway Stucco Paint

101—White.
105—Cement Gray. 107—Brick Red.
102—Buff. 103—Moss Green.

Be sure to state color wanted.

Shipping weight, per gallon, about 15 pounds
Barrels Shipped from Chicago Paint Plant

275 C 7792—25 gallons (barrel). Per gallon	$1.89
175 C 7791—5-gal. can. Per gal.	1.96
575 C 7790—1-gallon can	1.98
575 C 7789—½-gallon can	1.05

Porch and Deck Paint

An exceptionally hard drying paint used on porch floors and steps. Protects the wood and delays the signs of wear, resists hardest wear and constant outdoor exposure; sheds the rain and safeguards against rot and decay. Its weather and wear-resisting qualities make it commendable for use on decks and sides of boats. The cost is very low.

Choice of 6 Popular Colors

No. 196—Light Gray.
No. 194—Olive.
No. 197—Dark Gray.
No. 190—Tan.
No. 191—Light Brown.
No. 195—Brown.

Be sure to state color wanted.

75 C 7735—1 quart	$ .56
75 C 7736—½ gallon	1.10
75 C 7737—1 gallon	2.10

Shipping weight, per gallon, 15 pounds

Porch Furniture Paint

Specially made for protecting porch and lawn furniture, also on any other furniture and woodwork. Glossy finish.

Choice of four popular colors.
No. 198—Light Gray. No. —194 Olive. No. 191—Lawn Green.
No. 199—Cherry Red.

Be sure to state color wanted.

75 C 8590—1 pint	$ .33
575 C 8591—1 quart	.58
575 C 8592—½ gallon	1.15
575 C 8593—1 gallon	2.20

Shipping weight, per gallon, 15 pounds

Special Screen Paint

Prevents rust. Does not clog meshes. Black or Green.

Be sure to state color wanted

75 C 7745—½ pint	$ .18
575 C 7746—1 pint	.27
575 C 7747—1 quart	.48
575 C 7748—1 gallon	1.68

Shipping weight, per gallon, 15 pounds

Aluminum Screen Paint

Offers greater resistance to rust. Lighter color makes it easier to see through screen.

75 C 7739—½ pint	$ .52
75 C 7740—1 pint	.83
575 C 7741—1 quart	1.35
575 C 7742—½ gallon	2.35
575 C 7743—1 gallon	4.30

Shipping weight, per gallon, 15 pounds

Seal-Tite Waterproofing

For waterproofing cement, concrete, brick or plaster surfaces. Used alone or as a first coat before painting. Less paint needed if Seal-Tite is used first. Do not use over painted surface.

575 C 7793—1-quart can. Shipping weight, 3 pounds	70¢
575 C 7794—1-gallon can. Shipping weight, 12 pounds	$2.30
175 C 7795—5-gallon can. Shipping weight, 55 pounds	$11.00

One gallon covers about 150-200 square feet

Stainless Floor Oil

A special preparation for treating new or old floors to keep down the dust and prevent wear. Is not a stain, but brings out the natural color of the wood to good advantage. Much used in halls and kitchens, and especially recommended for floors in schools, churches and public halls. One gallon treats 600 square feet. Apply with a cloth or mop.

275 C 8266—50-gallon barrel. Per gallon	70¢
275 C 8265—25-gallon barrel. Per gallon	76¢
175 C 8233— 5-gallon can. Per gallon	82¢
575 C 8232— 1-gallon can	95¢
575 C 8231—½-gallon can	55¢
575 C 8230— 1 quart	34¢

Shipping weight, per gallon, 8½ pounds
Barrels Shipped from Chicago Paint Plant

Inside Floor Paint

We make this Paint especially for use on inside floors. It is extremely tough and durable, resists heelmarks and scratches, may be washed and scrubbed without injuring the finish. Not only brightens and renews floors but protects them from wear.

Because of its exceptional wearing qualities, it is recommended especially for kitchen and pantry floors; but it may be used on any floor in the house.

Choice of 7 Popular Colors

No. 155—Medium Drab.
No. 151—Gray.
No. 153—Deep Buff.
No. 157—Tan.
No. 147—Light Brown.
No. 148—Brown. No. 152—Deep Green.

Be sure to state color wanted.

575 C 8100— 1 quart	$ .55
575 C 8101—½ gallon	1.05
575 C 8102— 1 gallon	1.98

Shipping weight, per gallon, 15 pounds

Ward's Co-Var Finish

Colors and Varnishes at one Stroke of the Brush

CO-VAR FINISH is a varnish and stain combined. It colors and varnishes in one operation. Makes any wood any color desired.

Use it on floors, furniture or woodwork. It gives the color of the more expensive woods, like mahogany, walnut or rosewood, at small cost. If your floors or woodwork look dull and scarred, use Co-Var Finish to change the color and make them look bright and new again. If you have an old chair which is good in every way except looks, use Co-Var Finish to restore its beauty and put it back into service.

Anyone can use Co-Var Finish. No experience needed—simply apply it with a varnish brush like ordinary varnish. It is not necessary to remove the old finish—just see that the surface is dry, clean and smooth.

Floors finished with Co-Var will wear longer if given a coat of Marproof Floor Varnish.

Choice of seven colors, Ebony and Natural. State color wanted.

No. 183—Cherry.	No. 185—Light Oak.	No. 191—Bog Oak.
No. 186—Rosewood.	No. 187—Antique Oak.	No. 190—Ebony (Black).
No. 184—Mahogany.	No. 188—Walnut.	No. 189—Natural (Clear).

Sizes and Prices

75 C 8109—TRIAL OUTFIT—½-Pint Can with 1-Inch Varnish Brush: SPECIAL $ .25
75 C 8110—1-pint can..... 37¢ 575 C 8112—½-gallon can..... 1.23
575 C 8111—1-quart can..... 65¢ 575 C 8113—1-gallon can..... 2.30

Shipping weight, per gallon, about 11½ pounds

Important Notice.—Before putting a lighter color over a surface now finished in a dark color, it is necessary to put on a coat of "Ground Color" before applying the desired shade of Co-Var Finish. We supply ground color in the same sizes and at the same prices as for the regular colors listed above. In ordering ground color, specify **Co-Var Ground Color No. 192.**

Ward's Varnishes

Marproof
Special Floor Varnish

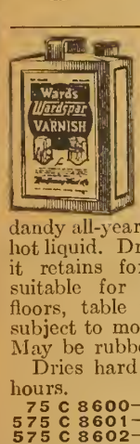
Water will not injure floors varnished with Marproof. Its brilliant finish resists heel marks, scratches, scars, etc. Hot or cold water will not injure the finish. Old floors will look like new when varnished with Marproof. Spreads easily and dries with a hard, wear-resisting finish. With its wonderful wearing qualities, Marproof is sold at a remarkably low figure when compared with other varnishes which require frequent coatings in order to retain their bright look. Perfect satisfaction guaranteed or money refunded.

75 C 8640—1-pt. can..... 40¢ 575 C 8642—½-gal.can. $1.43
575 C 8641—1-qt. can..... 76¢ 575 C 8643—1 gal. can... 2.68
175 C 8644—5-gallon can..... $12.90

Miro-Lite
Special Interior Varnish

Miro-Lite gives a mirror-like brilliancy to woodwork, doors, wood panelings, etc. Brings out the full beauty of the wood and at the same time preserves the surface and makes it last longer. A pale, easy flowing varnish that can be applied to all kinds of woodwork. Miro-Lite may be washed with hot or cold water and will not crack, turn white or blister. It is exceedingly durable—will wear for years and retain its fine brilliant finish for an unusually long time. May be rubbed and polished in forty-eight hours. Dries in six to eight hours.

75 C 8610—1-pint can..... 45¢ 575 C 8612—½-gal. can. $1.60
575 C 8611—1-quart can.... 85¢ 575 C 8613—1-gallon can 3.00
175 C 8614—5-gallon can..... $14.50



Wardspar
Durable Spar Varnish

Tough and weather-resisting, it may be used on all outdoor jobs such as porch ceilings, vestibules, front doors, etc. A dandy all-year varnish resisting ice cold or boiling hot liquid. Dries with a bright glossy finish which it retains for an unusually long time. Also suitable for use on boat decks, aeroplanes, floors, table tops and all surfaces which are subject to more than the usual amount of wear. May be rubbed or polished.

Dries hard and ready for use in six to eight hours.

75 C 8600—1-pint can..... $ .43
575 C 8601—1-quart can..... .80
575 C 8602—½-gallon can..... 1.55
575 C 8603—1-gallon can..... 2.98
175 C 8604—5-gallon can..... 14.25

Diamond "W" Floor Varnish

This is the varnish which made our high reputation on varnish. The brand we have been selling for years. Hundreds of our customers can tell you how reliable Diamond "W" Varnish is. They can tell you, from experience, how durable and long wearing it is. Water will not hurt floors varnished with Diamond "W."

Dries over night.

75 C 8645—Pint can..... $ .32
575 C 8646—Quart can... .58
575 C 8647—½ gallon... 1.05
575 C 8648—1 gallon... 1.80
175 C 8649—5 gallons.. 8.50

Wardway Linoleum Varnish

This varnish is excellent for preserving linoleum and oil cloth. Applied to new linoleum, it will delay that first appearing wear generally seen in front of the door, stove or sink, and which is an eyesore to all housewives. This varnish is a protection for new linoleum, is excellent for renewing old floor coverings, having a hard finish.

75 C 8650—Pint can... $ .33
575 C 8651—Quart can.. .55
575 C 8652—½ gallon. 1.00
575 C 8653—1 gallon. 1.85

Extra Light Copal
Universal Varnish

May be used for all kinds of varnishing. For special jobs we usually recommend our Special Brand Varnishes (Marproof, Miro-Lite, etc.). Each has its own specific use. However, for an average job where cost is a consideration, our Extra Light Copal Universal Varnish will answer the purpose satisfactorily.

It is tough and durable and dries within attractive, glossy finish. Sure to give excellent service. Dries overnight.

75 C 8605—1-pint can..... $ .40
575 C 8606—1-quart can..... .75
575 C 8607—½-gallon can..... 1.50
575 C 8608—1-gallon can..... 2.90
175 C 8609—5-gallon can..... 9.50

Interior Spar Varnish

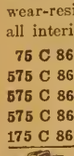
Spar Varnish, like its name, is hard, tough and wear-resisting. For use on all interior work.

75 C 8615—Pint... $ .32
575 C 8616—Quart.. .55
575 C 8617—½ gallon 1.05
575 C 8618—1 gallon 1.98
175 C 8619—5 gallons 9.25

Batavia Damar Varnish

For use over wall paper or white paint. A beautiful, pale, transparent Varnish. Dries dustproof in six to eight hours and hard in thirty-six hours. Full body. Easy to apply.

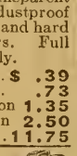
75 C 8660—Pint... $ .39
575 C 8661—Quart.. .73
575 C 8662—½ gallon 1.35
575 C 8663—1 gallon 2.50
175 C 8664—5 gals.. 11.75



No. 1 Furniture Varnish

Ideal for varnishing old or new furniture. No. 1 Furniture Varnish will restore your old furniture to a bright, glossy finish. Full bodied, quick drying and very durable. Full directions on can.

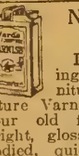
75 C 8670—1-pint can.. $ .30
575 C 8671—1-quart can. .55
575 C 8672—½-gallon can 1.00
575 C 8673—1-gallon can. 1.80
175 C 8674—5-gallon can. 8.50



Extra Hard-Oil Varnish

A good medium-priced Varnish. Made for interior finish of natural woods. Dries quickly with a full, rich luster.

75 C 8625—Pint can.. $ .38
575 C 8626—Quart can .70
575 C 8627—½-gallon can 1.32
575 C 8628—1-gallon can..... 2.45
175 C 8629—5-gallon can..... 11.75



Ward's Special Paint and Varnish Remover

A very effective remover. Will not discolor wood or injure hands.

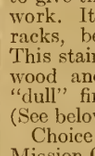
75 C 7796—1-pint can. Shipping weight, 2 pounds..... 36¢
575 C 7797—1-quart can. Shipping weight, 3½ pounds..... $ .65
575 C 7798—½-gallon can. Ship. wt., 6 lbs.. 1.18
575 C 7799—1-gallon can. Ship. wt., 11 pounds. 2.15

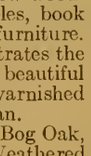
Powdered Paint or Varnish Remover

Similar to above but not as quick acting. Cleans brushes. Takes paint out of overalls, etc. Shipping weight, per pound, 1¼ pounds.

75 C 7805—1 pound... 15¢ 575 C 7806—5 pounds. 70¢

Ward's Penetrating Stain





For New Work Only
Choice of 10 Popular Colors

Only one coat of this Penetrating Stain is required to give that popular soft stained finish to any new woodwork. It is ideal for staining newly made tables, book racks, benches, new floors, woodwork and furniture. This stain does not raise the grain, merely penetrates the wood and brings out the color. Gives that beautiful "dull" finish which may be either waxed or varnished (See below for Wax.) Directions in full on the can.

Choice of Light Oak, Golden Oak, Dark Oak, Bog Oak, Mission Oak, Fumed Oak, Early English Oak, Weathered Oak, Walnut, or Mahogany.

Be sure to state color wanted.

75 C 8130—½ pint..... 23¢ 575 C 8132—1 quart. $ .60
75 C 8131—1 pint.... 35¢ 575 C 8133—½gallon 1.05
575 C 8134—1 gallon..... $1.85

Shipping weight, per gallon, 10½ pounds

Mission Art Liquid Wax

Prepared especially for wax finish over Penetrating Stain. Brings out the grain of wood perfectly. Used also for waxing any furniture, woodwork or floors. Apply with a cloth. Dries with a gloss. Takes on a high polish when used over varnished surfaces.

75 C 8150—1 pint..... 35¢ 575 C 8151—1 quart..... 55¢
575 C 8152—1 gallon..... $1.70

Shipping weight, per gallon, 8 pounds

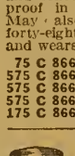
Covering Capacities and Shipping Weights of Varnishes

One gallon of our Varnish will cover about 600 square feet of surface on oak, or about 400 square feet on pine, one coat.

Shipping weights:

Per gallon..... 11 pounds
Per quart..... 4 pounds
Per pint..... 2½ pounds

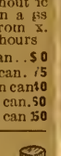
For a complete line of Varnish Brushes, see Page 630.



Cabinet Finish Varnish

Hard drying and is excellent for interior work, and furniture, also for church and school seats. Dries dustproof in six to eight hours. May also be "rubbed" in forty-eight hours. Dries hard and wears well.

75 C 8665—1-pint can $ .40
575 C 8666—1-quart can. .75
575 C 8667—½-gallon can 1.40
575 C 8668—1-gallon can 2.60
175 C 8669—5-gallon can 12.50



Rubbed Finish Varnish

Our Rubbed Finish Varnish when applied over a varnished surface, produces the effect of a rubbed varnish without the work of rubbing down a gloss coat. Entirely free from gloss. Dries in twenty four hours.

75 C 8655—1-pint can.. $ .60
575 C 8656—1-quart can. .75
575 C 8657—½-gallon can 1.40
575 C 8658—1-gallon can. 2.50
175 C 8659—5-gallon can 11.50

Hardwood Paste Filler

In order to produce a perfect surface for varnishing or waxing all open grain hardwood such as oak, ash, walnut or mahogany, the wood must first be filled. Ten pounds of Hardwood Paste Filler fills about 450 square feet of surface.

COLORS: Light, Dark and Golden Oak.

State color wanted.

75 C 8210—1-lb. can.. $ .15
75 C 8211—5-lb. can... .73
575 C 8212—10-lb. can... 1.40
575 C 8213—25-lb. can... 2.95
Shipping weight, per pound, 1¼ pounds.

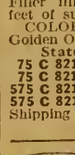
Fil-Tite Water Putty

A powdered mineral combination for filling cracks and imperfections in wood, plaster, concrete, etc. Mix with water. Dries hard as rock in a few hours. Satisfaction guaranteed.

75 C 8223—1-pound package. Shipping weight, ¾ pounds..... ¢

75 C 8224—2-pound package. Shipping weight, 3 pounds.....).

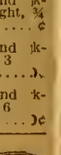
75 C 8225—5-pound package. Shipping weight, 6 pounds.....)¢



Liquid Wood Filler

For use on soft or close grained wood, or on hard wood after using paste filler, preparatory to varnishing. Shipping weight, per gallon, 12 pounds (1 gallon fills about 500 square feet).

575 C 8218—1 quart $ .48
575 C 8219—½ gallon. .88
575 C 8220—1 gallon. 1.55
175 C 8221—5 gallons 7.25



Crack and Crevice Filler

For filling cracks in floors, woodwork, etc., before painting or varnishing. Will not sink or crumble. One pound fills 35 square feet. Shipping weights, 1¼ and 6 pound

75 C 8228—1-pound can .0¢
75 C 8229—5-pound can .5¢

Refer to your No. 96 spring catalogue for Paint Colors, or write us for Color Cards

Wardway Flat Wall Finish

Wardway TRADE MARK

Beautiful Velvety Finish—Easy to Keep Clean

For producing that ever popular "flat" finished wall, use our Wardway Flat Wall Finish. The smooth, velvety, no-gloss which this paint produces is unsurpassed. The "plain" one-toned, no-gloss walls not only give that refined and dignified setting so restful to the eye, but also make a more prominent display of the beauty of the furniture and furnishings.

An important feature of this wall finish is the fact that it may be cleaned easily and quickly. For this purpose we recommened the use of our Wall Paper Cleaner (listed below on this page). For plastered walls not already sized or painted, first use our Fresco Wall Size (also listed on this page).

One gallon covers 200-250 square feet of surface, two coats. Choice of twelve colors, also White. Refer to your No. 96 Spring Catalogue for paint colors or write us for color cards.

Be sure to state color wanted.

71—White. 110—Ivory. 112—Light Canary. 113—Light Buff. 111—Buff. 114—Gold-Brown. 118—Pale Green. 116—Light Gray. 117—Pale Blue. 133—Deep Blue. 115—Shell Pink. 132—Old Rose. 231—Moss Green.

Sizes and Prices

575 C 8086—1 quart .... $ .62
575 C 8087—½ gallon 1.15
575 C 8088—1 gallon $2.21
175 C 8089—3-gallon can 6.48

Shipping weight, per gallon, 15 pounds

Wardway Household Paint

Washable Finish for Walls or Wood

For inside use only—A paint for every purpose. Use it anywhere inside the house, for walls, woodwork, floors and furniture.

Wardway Household Paint is an oil paint with a pleasing medium gloss finish. Soap and water will not injure the finish, and for this reason we particularly recommend its use on kitchen, pantry and bathroom walls and woodwork.

It does the work formerly requiring several different kinds of paint, and always is satisfactory.

One gallon covers about 250 square feet, two coats. Plastered walls never before painted or sized, must first be sized with Fresco Wall Size (see below).

Choice of twelve popular colors, also White. Many beautiful color combinations are possible with these harmonious shades. Refer to your No. 96 Spring Catalogue for paint colors, or write us for color cards.

Be sure to state color wanted.

71—White. 10—Ivory. 12—Cream. 13—Light Tan. 611—Buff. 634—Brown. 632—Old Rose. 616—Light Gray. 617—Azure Blue. 633—Deep Blue. 631—Moss Green. 618—Pale Green. 615—Shell Pink.

Sizes and Prices

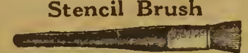
75 C 8060—1 pint .... 40¢
575 C 8061—1 quart .... 72¢
575 C 8062—½ gallon. $1.35
575 C 8063—1 gallon. 2.55

Shipping weight, per gallon, 15 pounds

STENCILS

Heavy oiled paper with designs cut out. For painting designs on walls, curtains, etc. with Kalsomine, Fresco Color Flat Wall and Gloss Paint, etc. Width and prices given below.

Stencil Brush



75 C 735 — Black Chinese bristles, ⅝-inch diameter, ⅞ inch long. Weight, 3 ounces. Each .... 16¢
75 C 736 — As above except ⅞-inch diameter and bristles 1 inch long .... 23¢

Ward's Superior Kalsomine

Kalsomine is one of the most popular wall finishes. It is sanitary and inexpensive. You can do the work yourself, and with a little stencil border make a very neat and attractive decoration.

Ward's Kalsomine is a guaranteed superior grade. It dries with a smooth, velvety finish. Ready for use when mixed with water. Full directions on the package. Four pounds sufficient to cover about 500 square feet. Plastered walls never before painted or kalsomined, must first be sized with Fresco Wall Size (see below).

Choice of twelve colors, also White. Refer to your Spring No. 96 Catalogue for paint colors, or write us for color cards.

Be sure to state color wanted.

200—White. 256—Ivory. 211—Pale Blue. 254—Alice Blue. 270—Pearl Gray. 262—Pea Green. 230—Sage Green. 257—Light Buff. 201—Buff. 210—Pale Canary. 232—Light Tan. 231—Deep Tan. 203—Shell Pink.

575 C 8325—4-pound package. Choice of any color .... $ .40
175 C 8330—Twenty 4-pound packages. One color only 7.60
175 C 8327—50-pound box. One color only 4.70

Shipping weights: Per 4-pound package, 5 pounds; 50-pound box, 55 pounds.

Ward's Fresco Colors

Deep, rich colors for stenciling and paneling borders on kalsomine walls and also for tinting kalsomine. Be sure to state color wanted.

312—Bright Yellow 575 C 8347—4-lb. pkg.... $1.05 75 C 8348—1-lb. pkg..... 29¢
308—Scarlet Lake 575 C 8343—4-lb. pkg.... 1.80 75 C 8344—1-lb. pkg..... 48¢
310—Deep Blue... 575 C 8345—4-lb. pkg.... 1.55 75 C 8346—1-lb. pkg..... 42¢
313—Myrtle Green 575 C 8341—4-lb. pkg.... 1.40 75 C 8342—1-lb. pkg..... 38¢

Shipping weight, per pound, 1¼ pounds

Wardway Liquid Enamel

Wardway Liquid Enamel is absolutely reliable. For use on all kinds of furniture and woodwork. May be used on plastered walls.

Just the thing for metal ceilings and metal bedsteads. Also recommended for baby carriages, etc.

Dries extremely hard with a high gloss finish. May be washed off with soap and water without injury to the finish. One gallon covers 200–250 square feet, two coats.

Where the surface is to be changed from a dark to a lighter shade, first apply a priming coat of Towerlite White Undercoat. This will hide the dark surface, at the same time supplying a white surface on which to apply your new shade of enamel. Plastered walls never before painted or sized, must first be sized with Fresco Wall Size before applying the enamel.

Choice of eight colors, also White and Black. Refer to your No. 96 Spring Catalogue for paint colors or write us.

Be sure to state color wanted.

170—Gloss White. 172—Gloss Black. 168—Ivory. 180—Cream. 176—Straw. 174—Sky Blue. 178—Silver Gray. 184—Light Green. 181—Tan. 182—Brown.

75 C 8074—¼ pint.. 15¢
75 C 8075—½ pint.. 24¢
75 C 8076—1 pint... 40¢
575 C 8077—1 quart. $ .73
575 C 8078—½ gallon 1.35
575 C 8079—1 gallon 2.60

Shipping weight, per gallon, 15 pounds

Towerlite White Enamel

Hundreds of our customers know the beauty and durability of Towerlite White Enamel. It is highly recommended for use on furniture, either wood or metal, for woodwork, metal ceilings and plastered walls—any place where enamel finish is desired.

We have been selling it for years, and each season sees more people becoming Towerlite friends. We guarantee it to give you satisfaction in every way.

The white of Towerlite is a lasting white and its beautiful finish will not chip or crack. It will retain its beauty for a long time and will stand frequent washings.

Choice of Towerlite White Enamel in two finishes — glossy bright finish or "egg shell" (soft-toned dull). One gallon of either covers about 200–250 square feet, two coats.

For surfaces not already painted white first apply one or more coats of Towerlite White Undercoat (see below).

White Glossy Finish

75 C 8432—½ pint... $ .36
75 C 8433—1 pint... .59
575 C 8434—1 quart.. 1.10
575 C 8435—½gallon. 2.15
575 C 8436—1 gallon.. 4.20

Egg Shell Finish
Pure White — Without Gloss

75 C 8390—1 pint...... $ .59
575 C 8391—1 quart.... 1.10
575 C 8393—1 gallon... 4.20

Shipping weight, per gallon, 11 pounds

Towerlite White Undercoat

The ideal first coat for using under any white or light colored enamel, particularly for use with our Towerlite Enamel. This undercoat makes a fine flat finish, just right for the finishing coat of enamel. Helps cover up the old surface and also improves the appearance of the finishing coat.

Towerlite White Undercoat is primarily a first coat preparatory to enameling. It is also used as a flat white finish.

75 C 8472—1 pint .... 36¢
575 C 8473—1 quart .... 62¢
575 C 8474—½ gallon.... $1.18
575 C 8475—1 gallon.... 2.20

Shipping weight, per gallon, 11 pounds

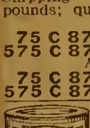
Radiator Enamel
Gold or Aluminum

For radiators, picture frames, chandeliers, moldings, etc. Durable; resists heat. In two-compartment cans, one containing bronze powder and the other bronzing liquid. Shipping weights: Pints, 2 pounds; quarts, 3 pounds.

Gold
75 C 8796—1 pint.. $ .83
575 C 8797—1 quart 1.55

Aluminum
75 C 8798—1 pint.. $ .69
575 C 8799—1 quart 1.16

Stovepipe Enamel

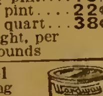


For stovepipes, hot or cold water pipes, radiators, etc. Will not crack or peel. Rustproof.

75 C 8177—½ pint.... 15¢
75 C 8178—1 pint.... 22¢
575 C 8179—1 quart... 38¢

Shipping weight, per quart, 3 pounds

Bathtub Enamel



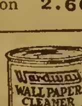
For enameling bathtubs. Dries hard. Will not chip. In Porcelain White or Ivory.

State color wanted.

75 C 8160—½ pint... 26¢
75 C 8161—1 pint... 45¢
575 C 8162—1 quart 80¢

Shipping weight, per quart, 4¼ pounds

Wardway Wall Paper Cleaner



For cleaning and renovating wall paper and kalsomined walls. Not injurious to hands or surface upon which it is used.

75 C 856—Per package. $ .10
Per dozen packages 1.10

Shipping weight, per package, 1½ pounds

Radiator Enamel

Endures extreme heat. For automobile engines, radiators, house radiators, etc. Colors: Black, Maroon and Dull Green. State color wanted. Shipping weight, per gallon, 11 pounds.

75 C 8170—½ pint... $ .24
75 C 8171—1 pint.... .42
575 C 8172—1 quart.. .75
575 C 8173—½gallon.. 1.40
575 C 8174—1 gallon.. 2.60

Vernis Martin Lacquer

Used on brass and other polished metals to beautify and protect against tarnish. Apply over Vernis Martin (Fumed Brown) Bronze to produce a correct imitation of genuine Vernis Martin. Ready to use.

75 C 8556—½ pint .... 27¢
75 C 8557—1 pint .... 48¢

Shipping weight, per pint, 3 pounds

Ward's Aluminum Paint
Ready Mixed

A heat-resisting and rust-preventing Aluminum Finish for wood or metal surfaces, radiators and pipes. Weather resisting. Used for outside work—auto radiator and engine, porch railings, tanks, etc. May be used on surfaces already painted.

75 C 8184—⅛ pint. Ship. wt., 1 pound...... $ .18
75 C 8185—¼ pint Ship. wt., 1¼ pounds... .30
75 C 8186—½ pint. Ship. wt., 1⅝ pounds... .46
75 C 8187—1 pint. Ship. wt., 2½ pounds... .78
575 C 8188—1 quart. Ship. wt., 3 pounds..... 1.40
575 C 8183—1 gallon. Ship. wt., 12 pounds... 4.50

Ready Mixed Gold Bronze Paint

High quality. Easy to apply. A durable Paint which will not rub off. For frames, radiators and interior decorating.

75 C 8189—⅛ pint. Ship. wt., 1 pound... $ .19
75 C 8190—¼ pint. Ship. wt., 1¼ pounds.. .31
75 C 8191—½ pint. Ship. wt., 1⅝ pounds.. .48
75 C 8192—1 pint. Ship. wt., 2½ pounds.. .83
575 C 8193—1 quart. Ship. wt., 3 pounds.... 1.48

Unmixed Bronze Powders

These finely ground Bronzes are of the highest quality. Used for gilding or decorating on frames, steampipes, radiators, etc. Splendid for sign work. To prepare: Mix 1 pint Banana or Bronzing Liquid to 6 ounces Bronze—except Aluminum, 4 ounces. Shipping weights, 1-ounce package, 2 ounces; 1-pound package, 1½ pounds.

Vernis Martin Bronze
75 C 8541—1-ounce package... $ .14
75 C 8543—½-pound can..... .95
75 C 8544—1-pound can...... 1.80

Copper Color Bronze
75 C 8551—1-ounce package... $ .13
75 C 8553—½-pound can..... .78
75 C 8554—1-pound can...... 1.40

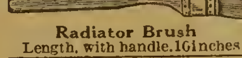
Aluminum Bronze
75 C 8520—1-ounce package... $ .12
75 C 8522—½-pound can..... .75
75 C 8523—1-pound can...... 1.30

Bright Gold Bronze
75 C 8510—1-ounce package... $ .12
75 C 8512—½-pound can..... .75
75 C 8513—1-pound can...... 1.30

Roman Gold Bronze
75 C 8515—1-ounce package... $ .13
75 C 8517—½-pound can..... .93
75 C 8518—1-pound can...... 1.75

Rich Gold Color Bronze
75 C 8546—1-ounce package... $ .13
75 C 8548—½-pound can..... .85
75 C 8549—1-pound can...... 1.50

Goat Hair

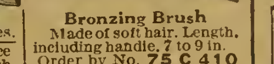


Radiator Brush
Length, with handle, 16 inches.

Article Number	Width In.	Hair In.	Price Each
75 C 604	1	1¼	20¢
75 C 605	1½	1¼	28¢
75 C 606	2	2	39¢

Shipping weight, each, 8 ounces

Soft Hair



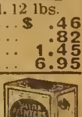
Bronzing Brush
Made of soft hair. Length, including handle, 7 to 9 in.
Order by No. 75 C 410

Width, in....	⅜	⅝	¾
Price........	10¢	12¢	14¢
Width, in....		⅞	1
Price........		16¢	19¢

Ship. wt., each, 6 ounces

For Our Complete Showing of Brushes, See Page 630

Ward's Fresco Wall Size



For use on plastered walls before painting or kalsomining. Sold by us for many years and always satisfactory. In liquid form. Dries in twelve hours. One gallon treats 400–600 square feet. Ship. wt., per gal. 12 lbs.

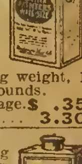
575 C 8736—1 quart .... $ .46
575 C 8737—½ gallon .... .82
575 C 8738—1 gallon 1.45
175 C 8739—5 gallons 6.95

"HRH" Paint Cleaner

The genuine advertised brand. Fine for washing and cleaning varnished or painted walls, floors, furniture, etc. Excellent for cleaning marble and linoleum. Shipping weight, 1½ pounds.

75 C 864—14-ounce package .... 10¢

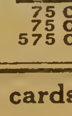
Master Painter's Wall Size



For sizing surfaces of plaster, wood, hurlap or canvas before kalsomining, painting or papering. One pound makes 2 gallons of size. Shipping weight, 1 pound package, 1¼ pounds.

575C 950—1-lb. package. $ .35
10 packages 3.30

Banana Liquid



A water white liquid for mixing gold, aluminum and other bronzes. Durable. Shipping weights, pint 2½ pounds; quart, 4 pounds.

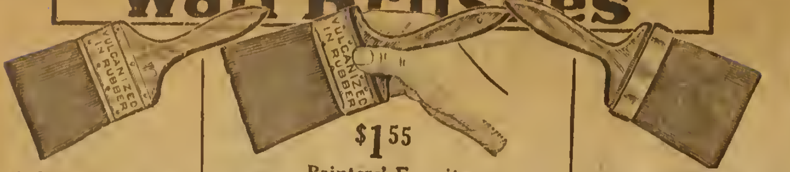
75 C 8533—½ pint.. $ .36
75 C 8534—1 pint.. .62
575 C 8535—1 quart. 1.15

Bronzing Liquid

Used for mixing bronze and aluminum powder. A good substitute for Banana Liquid. Shipping weights, pint, 2¼ pounds; quart 4 pounds.

75 C 8532—½ pint. 19¢
75 C 8530—1 pint... 32¢
575 C 8531—1 quart.. 55¢

Wall Brushes



$1.55

High Grade Wall Brush
Selected black Chinese bristles, full and firm. Vulcanized in rubber. Nickel plated ferrule. Shipping weights, 6 to 12 ounces.

Article Number	Width	Bristles	Each
75 C 546	3 inches	3¼ inches	$ .90
75 C 547	3½ inches	3½ inches	1.10
75 C 548	4 inches	3⅝ inches	1.45
75 C 549	4½ inches	3¾ inches	1.70

Painters' Favorite
Black Chinese bristles, vulcanized in rubber. Nickel plated ferrule. Width, 4 inches. Shipping weight, 12 ounces.
75 C 701—With 4-inch bristles . . . $1.68
75 C 704—With 3⅞-inch bristles . 1.55

Paint and Stucco Brush
High quality. Seamless, steel-bound, nickel plated. Thin handled. Has strong light steel band; long, elastic, black Chinese bristles, and is vulcanized in rubber. Guaranteed. Ship. weights, 6 to 12 ounces.

Article Number	Width	Bristles	Each
75 C 595	3½ inches	4½ inches	$3.35
75 C 596	4 inches	4¾ inches	4.40
75 C 597	4½ inches	5 inches	5.25

$2.20

Special Quality with Black Chinese Bristles
Vulcanized in rubber to set them firmly and keep them from loosening. Nickel plated ferrule. Shipping weights, 8 to 16 ounces.

Article Number	Width	Bristle	Each
75 C 540	3 in.	3¾ in.	$1.40
75 C 541	3½ in.	4 in.	1.95
75 C 542	4 in.	4¼ in.	2.90
75 C 543	4½ in.	4½ in.	3.85

A Good Low Priced Brush
A fair brush for odd jobs. Good quality black Chinese bristles, set in cement. Tinned ferrule. Shipping weights, 6 to 16 ounces.

Article Number	Width	Brist.	Each
75 C 559	2½ in.	2 in.	24¢
75 C 560	3 in.	2⅜ in.	40¢
75 C 561	3½ in.	2⅝ in.	50¢
75 C 562	4 in.	2⅞ in.	60¢
75 C 563	4½ in.	3 in.	75¢
75 C 564	5 in.	3⅛ in.	90¢

Rubberset Leather Bound Paint or Stucco Brush
A well balanced Paint or Stucco Brush. Used also to apply Flat Wall Finish. Full, elastic. Best selected black Chinese bristles, set in rubber. Leather bound. Genuine Rubberset.

Article Number	Width Inches	Brisl. Inches	Ship. Weight	Price Each
75 C 536	3½	3¾	8 oz.	$2.20
75 C 537	4	4	10 oz.	2.95
75 C 538	4½	4½	12 oz.	3.92

Black Chinese Bristles
Set in rubber. Metal bound. Shipping weights, 6 to 16 ounces.

Article Number	Width	Brist.	Each
75 C 551	2½ in.	2⅜ in.	$ .52
75 C 552	3 in.	2⅝ in.	.63
75 C 553	3½ in.	2⅞ in.	.78
75 C 554	4 in.	3¹⁄₁₆ in.	1.00
75 C 555	4½ in.	3⅜ in.	1.25
75 C 556	5 in.	3½ in.	1.50
75 C 557	5½ in.	3⅝ in.	1.75

White and Black Russian Bristles
Good brush; gives excellent service. White bristles outside, black center. Rubberset. Hard rubber ferrule. Ship. weights, 8 to 16 ounces.

Article Number	Width	Brist.	Each
75 C 631	3 in.	4 in.	$2.35
75 C 633	3½ in.	4 in.	2.70
75 C 635	4 in.	4 in.	3.35
75 C 637	4½ in.	4 in.	3.65

Selected White Russian Bristles
Wall brush. Selected white Russian bristles, set in hard rubber. Brass bound. Genuine Rubberset. Shipping weights, 8 to 16 ounces.

Article Number	Width	Brist.	Each
75 C 623	3 in.	3 in	$1.20
75 C 625	3½ in.	3¼ in	1.80
75 C 627	4 in.	3½ in	2.20
75 C 629	4½ in.	3¾ in	2.95

Flat Sash or Radiator Brush
Also used for radiator painting—the long handle makes it possible to reach the remotest parts. Black Chinese bristles. Genuine Rubberset. Ship. weights, 2 to 4 oz.

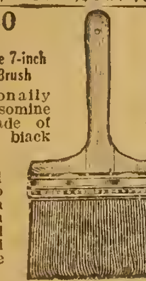
Article Number	Width	Bristles	Each
75 C 610	1 in.	1⅝ in.	25¢
75 C 611	1½ in.	2 in.	35¢
75 C 613	2 in.	2¼ in.	45¢

Oval Paint or Varnish Brush
Properly tapered bristles vulcanized in rubber. Nickel plated ferrule. Ship. wts., 4 to 8 ounces.

Article Number	Width Inches	Brist.	Each
75 C 680	1¾	3 in.	$ .70
75 C 681	1⅞	3⅛ in.	.98
75 C 682	2⅛	3½ in.	1.30
75 C 683	2¼	3¾ in.	1.60

Oval Chiseled Sash or Artists' Brush
Black Chinese bristles, vulcanized in rubber. Ship. weights, 4 to 6 ounces.

Article Number	Width	Bristles	Each
75 C 506	¾ in.	1¾ in.	18¢
75 C 507	1 in.	1⅞ in.	23¢
75 C 508	1⅛ in.	2¼ in.	32¢
75 C 509	1¼ in.	2½ in.	40¢



$3.80

Superior Grade 7-inch Kalsomine Brush
Exceptionally good Kalsomine Brush. Made of extra long black Chinese bristles, vulcanized in rubber to hold them firmly in place. Full stock. Nickel plated ferrule

$1.25

Excellent Quality 5¾-inch Kalsomine Brush
Strictly reliable Kalsomine Brush that will give good, long service. Made of black Chinese bristles vulcanized in rubber. Metal bound. Exceptional values at our low price.

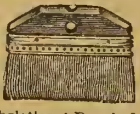
Superior Quality Kalsomine Brush

Article Number	Width	Bristles	Shipping Weight	Each
75 C 525	7 in.	4½ in.	16 ounces	$3.80
75 C 526	8 in.	4¾ in.	18 ounces	5.45

Excellent Quality Kalsomine Brush

Article Number	Width	Bristles	Shipping Weight	Each
75 C 520	5¾ in.	3¼ in.	12 ounces	$1.25
75 C 521	6¾ in.	3½ in.	14 ounces	1.80
75 C 522	7¾ in.	3¾ in.	16 ounces	2.45

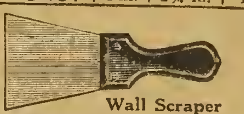
Whitewash Brushes



Black Chinese Bristles 489, 490, 491
A good quality brush. Black Chinese bristles, securely cemented. Metal bound.

White Tampico Fiber 460, 461, 462
An inexpensive Whitewash Brush. Metal bound. Fine white Tampico fiber outside, black mixed center.

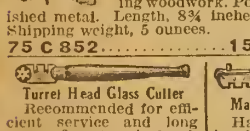
Number	Width	Bristles	Ship. Wt.	Each
75 C 460	6 in.	3 in.	9 oz.	$ .20
75 C 461	7 in.	3 in.	10 oz.	.28
75 C 462	8 in.	3 in.	11 oz.	.35
75 C 489	6 in.	2½ in.	9 oz.	.78
75 C 490	7 in.	2¾ in.	10 oz.	.92
75 C 491	8 in.	2¾ in.	12 oz.	1.20



Wall Scraper
Stiff blade, 3¾ inches long, 3½ inches wide. Ship. wt., 9 ounces.
75 C 847 . . . . 12¢

Wall Scraper
Plain handle. Blade, 4 inches long, 2¾ inches wide. Shipping weight, 7 ounces.
75 C 846 . . . . 18¢

Painters' Time Saver



Prevents daubing wall when painting or cleaning woodwork. Polished metal. Length, 8¾ inches. Shipping weight, 5 ounces.
75 C 852 . . . . 15¢

Zincked Glaziers' Points

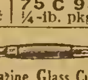
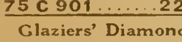
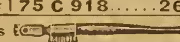


Illustration ¾ size.
75 C 951—⅛-lb. pkg. . 5¢
75 C 950—¼-lb. pkg. . 8¢



Turret Head Glass Cutter
Recommended for efficient service and long wear. 6 cutters in head. Shipping weight, 3 ounces.
75 C 901 . . . . 22¢

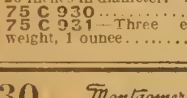


Magazine Glass Cutter
Has 6 cutters—5 are in the handle. Shipping weight, 3 ounces.
75 C 918 . . . . . . 26¢

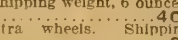
Glaziers' Diamonds

Mounting, nickel plated. No. 5 Standard—Cuts all glass except plate. No. 7 Plate—Cuts all glass. Shipping weight, each, 6 ounces.
275 C 940—No. 5 . . . . $7.40
275 C 941—No. 7 . . . . 9.50

Glass Cutter



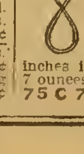
Cuts circles 2½ to 20 inches in diameter. Shipping weight, 6 ounces.
75 C 930 . . . . 40¢
75 C 931—Three extra wheels. Shipping weight, 1 ounce . . . . 9¢



Fitted with patent hardened steel wheel. Ship. weight, 2 ounces.
75 C 915 . . . . 9¢

Rubber Graining Tools

One roller imitates straight grain; one, quarter-sawed oak; the third takes place of graining combs. Each 5 inches long. Shipping weight, per set, 15 oz.
75 C 756—
Per set of 3 rollers . . . . . . 92¢
75 C 753—Extra roller like "A," 8 inches long . . . . . . 70¢
75 C 755 — Roller like "A," 3 inches long . . . . 30¢



Magic Handle Grainer
For graining floors, wainscoting, etc. No experience necessary. You rock the roller at the same time you slide it along. Every change of movement makes a different grain. Roller, 3 inches long. Shipping weight, 7 ounces.
75 C 752 . . . . 35¢

Graining Outfit
A complete Graining Outfit with tools which anyone can use. Directions included.

Outfit Consists of:—
1 Quart Co-Var Finish; [Ground Color.
1 Pint Graining Color, light Oak.,
1 Quart Co-Var—Natural Gloss Finish.
1 3-inch Grainer and Steel Comb.
1 Brush, 1½ inches, for graining.
1 Brush, 2½ inches, for Compound Ground Color and Finishing Coat.

Shipping weight, outfit, 16 pounds.
475 C 8438—Outfit $2.95

Varnish Brushes

$1.12

Badger Hair Brush
Chiseled. Double thick. Vulcanized in rubber. Nickel plated ferrule. Shipping weights, 4 to 8 ounces.

Article Number	Width	Each
75 C 656	1½ in.	$1.12
75 C 657	2 in.	1.45
75 C 658	2½ in.	1.75
75 C 659	3 in.	2.10

33¢

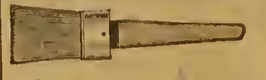
Our "Old Reliable" Quality Varnish Brush
Full stock. Black Chinese bristles. Vulcanized in rubber.

Article Number	Width	Bristles	Shipping Weight	Each
75 C 651	1½ in.	2⅛ in.	3 ounces	33¢
75 C 652	2 in.	2⅜ in.	4 ounces	45¢
75 C 653	2½ in.	2⅝ in.	5 ounces	60¢
75 C 654	3 in.	2⅞ in.	7 ounces	75¢
75 C 655	3½ in.	3⅛ in.	8 ounces	95¢

38¢

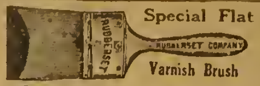
Fitch Flowing Brush
Double thick fitch hair extra fine. Chiseled. Set in cement. Shipping weights, 4 to 8 ounces.

Article Number	Width	Each
75 C 665	1 in.	38¢
75 C 666	1½ in.	48¢
75 C 667	2 in.	70¢
75 C 668	2½ in.	82¢
75 C 669	3 in.	95¢



Special Oval Brush for Varnishing
Black Chinese bristles, vulcanized in rubber. Nickel plated ferrule.

Article Number	Width Inches	Bristles Lgth. In.	Ship. Wt.	Each
75 C 677	1⅝	2¼	4 oz.	35¢
75 C 678	2¼	2½	6 oz.	50¢



Special Flat Varnish Brush
Our very best flowing brush. For fine varnishing and enameling. Selected black Chinese bristles. Chiseled edge. Nickel plated ferrule. Genuine Rubber set. Ship. weights, 5 to 10 ounces.

Article Number	Width	Bris. In.	Each
75 C 612	2 in.	2⅞	$ .75
75 C 614	2½ in.	3⅛	1.15
75 C 616	3 in.	3⅜	1.50
75 C 618	3½ in.	3½	1.90

Dandy Brush
Black Chinese bristles, set in cement. Shipping weights, 2 to 6 ounces.

Article Number	Width	Bristles	Each
75 C 671	1 in.	1¾ in.	12¢
75 C 672	1½ in.	1⅞ in.	15¢
75 C 673	2 in.	2 in.	22¢
75 C 674	2½ in.	2⅛ in.	28¢
75 C 675	3 in.	2¼ in.	40¢

Mottling Brush
An excellent Mottling Brush. Camel hair, 1 to 1⅛ inches long. Cedar handles. Metal ferrules. Shipping weights, 4 to 6 ounces.

Width, in. . . .	1½	2	2½	3
75 C 424.	40¢	65¢	90¢	$1.15

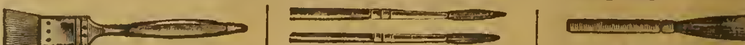
Varnish Brush
Black Chinese bristles vulcanized in rubber. Chiseled. Shipping weights, from 4 to 6 ounces.

Article Number	Width	Brls. In.	Each
75 C 638	2 in.	2¾	$ .65
75 C 640	2½ in.	2⅞	.80
75 C 642	3 in.	3	1.15
75 C 644	3½ in.	3⅛	1.40

Color Brushes
Extra quality. Double thick. Full stock. Camel Hair, 1⅛ to 1½ inches long. Shipping weights, 4 to 6 ounces.

Width, in.	1½	2	2½	3
75 C 426. .	50¢	75¢	$1.00	$1.25

Signwriters' and Cardwriters' Brushes



Flat Brush. Ox Hair, Chiseled edge. Nickel ferrule. Shipping weight, 4 ounces. Used in water or oil colors.

Width, inches.	½	¾	1
Length hair . . .	1	1⅛	1¼
75 C 412. .	35¢	45¢	65¢

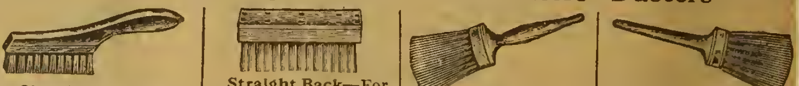
Fine Ox Hair Riggers. Square point. For making letters, lines, etc. Nickel ferrules. Long handle. Shipping weight, 4 ounces. Length of hair, 1 to 1⅛ inches.

Size.	2	4	6
75 C 406. .	14¢	18¢	20¢

Striping Pencil in quills. Fine camel hair, 2 inches long. No. 2 makes very fine stripe; No. 8, a stripe about ⅛ inch wide. Shipping weight, 2 ounces.

Sizes	2	4	6	8
75 C 402	7¢	11¢	14¢	20¢

Wire Cleaning Brushes and Painters' Dusters



Shoe handle—Size of block, 1 by 5 inches. Length, including handle, 10 inches. Fine steel wire, very full, 1½ inches long. Shipping weight, 12 ounces.
75 C 764 . . . . 28¢

Straight Back—For cleaning wood or metal surfaces before painting. Size block, 2¼ by 7 inches; wire, 1¾ inches long. Shipping weight, 1¼ pounds.
75 C 760 . . . . . . 34¢

All Hair Duster
Reaches most remote corners. 2½ inches wide. Stock, 3½ inches long. Shipping weight, 8 ounces.
75 C 744 . . . . . . 58¢

Round Duster — For use in painting. Serviceable. Black bristles, 4 inches long, 2½ inches wide. Shipping weight, 12 ounces.
75 C 745 . . . . 95¢

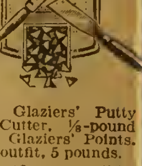
Painting Outfit

$2.85

Complete outfit consists of: 1 Oval Sash Brush, ¾ inch wide; 1 Oval Sash Brush, 1 inch wide, black Chinese bristles, 1⅞ inches long; 1 Rubberset Paint Brush, 3½ inches wide, black Chinese Bristles, 2⅞ inches long; 1 Rubberset Paint Brush, 3 inches wide, black Chinese bristles, 2⅝ inches long; 1 Paint Pot Hook; 5 pounds Putty; 1 Steel Putty Knife; 1 Iron Paint Paddle; ⅛-pound Glaziers' Points. Shipping weight of outfit, 6 pounds.
175 C 743—Complete outfit $2.85

Special Putty Outfit

50¢



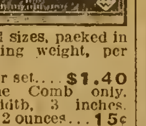
A special handy outfit for the professional, or home glazing. The Outfit Consists of:—3-pound can of Putty, Glaziers' Putty Knife, Glass Cutter, ⅛-pound package Zinced Glaziers' Points. Ship. weight of outfit, 5 pounds.
75 C 758—Outfit . . . . 50¢

Wall Scraper

Riveted Handle. Shipping weights, from 6 to 8 ounces.

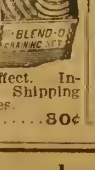
Article Number	Blade Width	Blade Length	Each
75 C 865	2½ in.	4 in.	28¢
75 C 866	3 in.	4½ in.	47¢
75 C 867	3½ in.	4½ in.	55¢

English Blue Steel Graining Combs



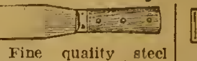
For imitating hardwood finish. For professional or home use. Set of 12 assorted sizes, packed in tin case. Shipping weight, per set, 12 ounces.
75 C 748—Per set $1.40
75 C 749—One Comb only. Fine grain. Width, 3 inches. Shipping weight, 2 ounces . . . 15¢

Home Grainer



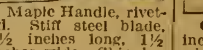
For imitation of any wood. Set consists of 2 rollers and 1 comb. Length, rollers, 5 inches. One roller produces heart-shape wood grain, the other is a blender and a steel comb for fine-grain effect. Instructions included. Shipping weight, per set, 8 ounces.
75 C 750—Per set . . . . . . 80¢

Putty Knives

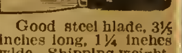


Fine quality steel blade, securely riveted with bolster. Blade 3¾ in. long, 1¼ in. wide. Ship. weight, 7 ounces.
75 C 840—Flexible 24¢
75 C 841—Stiff . . . 20¢

Glaziers' Chisel Putty Knife — Steel chisel edge blade, 3½ inches long, 1½ inches wide. Shipping weight, 7 ounces.
75 C 933 . . . . . 25¢

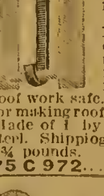


Maple Handle, riveted. Stiff steel blade, 3½ inches long, 1½ inches wide. Shipping weight, 7 ounces.
75 C 842 . . . . . 15¢



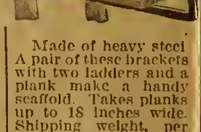
Good steel blade, 3½ inches long, 1¼ inches wide. Shipping weight, 6 ounces.
75 C 843 . . . . . 10¢

Ladder Hook

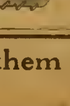


Will fit any ladder. Hook drops over ridge making roof work safe. Handy for making roof repairs. Made of 1 by ¼-inch steel. Shipping weight, 2¾ pounds.
75 C 972 . . . . . 45¢

Ladder Brackets



Made of heavy steel. A pair of these brackets with two ladders and a plank make a handy scaffold. Takes planks up to 18 inches wide. Shipping weight, per pair, 20 pounds.
175 C 970—
Per pair $2.95



Steel Roof Bracket
Holds ladder or stage hook securely. Only for shingle roofs. Avoids nailing of cleats on the roof. Will not injure the roof. Shipping weight, each, 2¼ pounds.
75 C 976—Each . . . . $ .45
Per set of 6 . . . . . 2.60

We know our Paints are good because we make them good

Turn This Page

This Pattern Costs Only

24¢

for a DOUBLE LENGTH Roll

16 Yards Long
18 Inches Wide

Notice

This is an actual sample—see pattern on other side—of the side wall of our "Gold and Gray Fabric and Leaf" design, with the border to match printed across the top of it and the base to match printed across the bottom.

The border is cut out and is *ACTUALLY 9 INCHES WIDE,* including the base. It is sold separately.

Order Direct from This Sample

***Side Wall*—No. 576 C 294. Per DOUBLE LENGTH roll (16 yards long) ....24¢**

***Border*—No. 576 C 2294—9 inches wide, cut out and including base. Per yd. 6¢**

***Ceiling*—No. 576 C 295. Per DOUBLE LENGTH roll (16 yards long) .....24¢**

See below at right for quantity to order.

$2.64 Buys enough of this paper to paper the average size room, 10 by 12 by 8 feet high, including wall, border and ceiling.

For More Than 100 Other Wall Paper Samples

Send *for this* FREE Wall Paper Sample Book

With the Newest Patterns for Fall and Winter Decorating

Get your copy now. Send coupon below; or next time you send us an order, ask us to mail you a copy.

Actual size of Sample Book, 8¾ by 7 Inches

This is one-fourth larger than most wall paper books.

This Book Shows You Samples of Both the Borders and the Side Walls

OUR new Wall Paper Sample Book is made up o **actual samples** of over 100 up-to-date wal papers.

In addition, it shows you with each sid wall pattern, **a sample of the border to match** This is our new, patented method of showing th borders—and it makes it much easier for you to selec exactly the border you want. You no longer need t guess at the colors and designs from so-called "colore illustrations." Our new book gives you the **sample** of the borders. You know exactly what they look lik before placing your order.

SEND today for this big new FREE Sample Book. It contains actual samples of over 100 beautiful and up-to-date wall papers—a wide assortment for every room in the house.

Greatly Reduced Prices. Now cut to as low as 8¢ per DOUBLE LENGTH roll. Others, among the finer patterns such as fabrics, tapestries and embossed papers, **up** to 50¢ a DOUBLE LENGTH roll.

And remember, our DOUBLE LENGTH rolls are twice as long as the ordinary "single" roll by which most wall paper is sold. A single roll is only 8 yards long. Each of our DOUBLE LENGTH rolls is 16 yards long.

Whatever your preference in wall papers—light colors o darker tones, fancy figures or plain—you are sure to find in thi large variety of patterns—over 100 in all—shades and pattern that will please you in the qualities you prefer.

Paper Your Rooms This Fall. Prepare now for the lon winter days indoors. Let our new Sample Book show you th correct and latest wall papers—the designs that are up to date artistic and in good taste. It will cost but little to buy enoug paper to brighten up the whole house. And you can do your ow papering (our Sample Book explains how).

Of Course You Can Hang Your Own Wall Paper

OUR Wall Paper Sample Book explains clearly how to hang wall paper. You can do a first class job yourself. All you need is a brush, a pair of shears and some paste. The paste brush is listed below at a special cut price. You can use a whisk broom for smoothing; a furniture caster for seams; a long table (or some boards stretched between boards); a step ladder and a stout plank.

Special Paste Brush

98¢

Black Chinese bristles with black mixed center; 4 inch bristles, 5½ inches wide. Metal bound. Shipping weight, 8 ounces.
75 C 782.....98¢

Prepared Dry Paste

Two pounds with water is enough for average room. For shipping weight, add ⅛ pound to each pound actual weight.
75 C 880—2 pounds.....22¢
75 C 881—5 pounds.....55¢

TEAR OFF AND MAIL

MONTGOMERY WARD & CO.,
Chicago, Illinois.

Please send me a copy of your new Wall Paper Sample Book FREE.

.....
Your Name

.....
R. F. D. or Street Number

.....
Town and State

How to Find Amount *of* Paper Needed

Use the chart at right. If exact size of your room is not shown, use the figure given for next larger size. Deduct one DOUBLE LENGTH roll of side wall for every four openings (doors or windows) in the room.

Side wall and ceiling papers are sold only by the DOUBLE LENGTH roll—16 yards long, 18 inches wide. Borders are sold by the yard.

Shipping Weights of Wall Paper

Actual weights of side wall and ceiling papers: Per DOUBLE LENGTH roll, 1½ pounds; border, per yard, 1 ounce. Add 1 pound for weight of wrapping in room lots (about 8 double rolls). See Parcel Post and Express Rates on Pages 319 and 321.

Size of Room Feet	Double Rolls of Side Wall Necessary According to Height of Room						Yards of Border	Dbl. Rolls Ceiling
	7 Feet	8 Feet	9 Feet	10 Feet	11 Feet	12 Feet		
8x10	4	5	5	6	6	7	13	2
8x12	4	5	6	6	7	7	14	2
9x12	5	5	6	6	7	8	15	2
9x14	5	6	6	7	8	8	16	2
10x12	5	6	6	7	7	8	15	2
10x14	5	6	7	7	8	9	17	3
10x16	6	6	7	8	9	9	18	3
12x14	6	6	7	8	9	9	18	3
12x16	6	7	8	8	9	10	20	4
12x18	6	7	8	9	10	10	21	4
13x14	6	7	7	8	9	10	19	3
13x16	6	7	8	9	9	10	20	4
13x18	7	8	8	9	10	10	21	4
14x14	6	7	8	8	9	10	20	4
14x16	6	7	8	9	10	10	21	4
14x18	7	7	8	9	10	11	22	4
15x15	6	7	8	9	10	10	21	4
15x18	7	8	9	10	11	11	23	5
15x20	7	8	9	10	11	12	24	5
16x18	7	8	9	10	11	12	23	5
16x20	8	9	10	11	12	13	25	5

PATENTED U. S. A., FEB. 8, 1921—DOM. CAN., JULY 13, 1920

Ward's Roof Coatings

52¢ A Gallon In 50-Gallon Barrels

Liquid Roof Cement

An elastic durable covering that contracts and expands with temperature changes and will not soften or run in the hottest weather or crack or peel in midwinter.

It is a plastic composition reinforced by asbestos fibers running in all directions—which hold the coating in place until it sets. Coating 1/32 of an inch thick is usually sufficient.

In extreme cases where the roof is sunken or where water stands, we recommend a first coat of our Trowel Roof Cement (at left).

Easy to use—apply with an ordinary paint brush or a knotted roofing brush (see below). One gallon covers about 100 square feet. Shipping weight, per gallon, 10 pounds.

275 C 7803—50-gallons. Per gallon....52¢
275 C 7802—25-gallons. Per gallon....56¢
175 C 7801— 5-gallon can..............73¢
575 C 7800— 1-gallon can..............78¢
Barrels Shipped from Northern Illinois

Special Asphalt Paint

54¢ A Gallon In 50-Gallon Barrels For Black

A specially prepared Asphalt Paint for iron, steel and other surfaces. One coat will add years to the life of the surface.

Used on tanks, windmills, bridges or any metal surface which needs protection from the sun, rain and snow. Prevents rust and rot. Recommended for felt or composition roofing. Ready for use. Easily applied—simply put it on with an ordinary paint brush. One gallon covers about 200-250 square feet, one coat. Ordinarily one coat is sufficient.

Three colors—black, green and red. The red and green produce very pretty effects and are particularly desirous for residences. **Be sure to state color wanted.**

Black
275 C 8354—50-gallon bbl. Per gallon..54¢
275 C 8353—25-gallon bbl. Per gallon..58¢
175 C 8351— 5-gallon can. Per gallon..75¢
575 C 8350— 1-gallon can..............80¢

Red
275 C 8359—50-gallon bbl. Per gallon $ .80
275 C 8358—25-gallon bbl. Per gallon .84
175 C 8356— 5-gallon can. Per gallon 1.01
575 C 8355— 1-gallon can 1.06

Green
275 C 8364—50-gallon bbl. Per gallon $ .88
275 C 8363—25-gallon bbl. Per gallon.. .92
175 C 8361— 5-gallon can. Per gallon 1.10
575 C 8360— 1-gallon can 1.15
Shipping weight, per pound, about 12 pounds
Barrels Shipped from Northern Illinois

Trowel Roof Cement

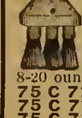
Extra Heavy — Apply with Trowel

5¢ A Pound In 50-Gallon Barrels

Similar to Liquid Roof Cement at the right, but heavier. Sticks to any surface—will not get hard or brittle in the winter or soften in the summer. Jet black in color, non-poisonous. Will not taint or discolor rain water. On average roof, a coating 1/16 to 1/8-inch thick is sufficient. When so spread, 40 pounds covers about 100 square feet. Also used for sealing around chimneys and drain pipes and for waterproofing outside of cement foundations.

275 C 7783—550-pound bbl. Per pound 5¢
275 C 7788—300-pound bbl. Per pound 5½¢
475 C 7786— 50-pound pail. Per pound 7¢
475 C 7785— 25-pound pail. Per pound 8½¢
575 C 7784— 5-pound can. Per pound 10¢
Shipping weight, per pound, 1⅛ pounds
Barrels Shipped from Northern Illinois

Knotted Roofing Brush



Special for applying Ward's Liquid Roof Cement and other heavy roof coatings.

Made of heavy mixed stock, 3 inches long. Handle not furnished, use broom handle or long pole. Shipping weight, 8-20 ounces. (Illustration shows 3 knots.)

75 C 721—1-knot roofing brush......$ .40
75 C 722—2-knot roofing brush...... .65
75 C 723—3-knot roofing brush...... .90
75 C 724—4-knot roofing brush...... 1.15

Tinners' Red Paint

Protects Downspouts and Gutters

For painting metal roofs, gutters, downspouts, etc., to protect them from weather wear. A ready mixed oxide paint used instead of red lead at much smaller cost. Use it either as a first coat before other painting or alone, as a durable protection against rust and decay. Our Tinners' Red is not an experiment, but a tried and proved product which we back with our full guarantee. Use it and save repair bills.

275 C 7767—50-gal. bbl. Per gal.....$1.24
275 C 7766—25-gal. bbl. Per gal..... 1.28
175 C 7765— 5-gal. can. Per gal..... 1.45
575 C 7764— 1-gallon can.......... 1.55
Shipping weight, per gallon, 15 pounds
Barrels Shipped from Chicago

Special Roofing Brush

A brush made similar to our regular knotted roofing brushes, listed on this page, **but without the knots.** Makes a big, strong, heavy brush. Fine for spreading roof cement and other heavy paints.

Bristles of heavy mixed stock about 3 inches long, mounted on a block 6 by 2 inches. Handle not furnished. Use broom handle or pole. Shipping weight, 16 ounces.

75 C 725..........................**$1.20**

Heavy Roof and Fence Paint

This heavy oil Paint contains enough asphaltum to guarantee its sticking to iron, tin or other metal. Forms a tough durable film over the surface which resists all sorts of weather.

Adds years of service to old roofs. Recommended for use on tanks, windmills, etc. One gallon covers 200-300 square feet, one coat.

Prices—Black
275 C 8418—50-gal. bbl. Per gal....$ .76
275 C 8417—25-gal. bbl. Per gal... .81
175 C 8416—5-gallon can. Per gallon. .92
575 C 8415—1-gallon can........... 1.08

Prices—Maroon (Dark Red)
275 C 8422—50-gal. bbl. Per gal...$ .95
275 C 8421—25-gal. bbl. Per gal... 1.00
175 C 8420—5-gallon can. Per gallon. 1.12
575 C 8419—1-gallon can.......... 1.28
Shipping weight, per gallon, 15 pounds
All Barrels Shipped from Chicago

Wood Preservative

Cresote oil is one of the best Wood Preservatives known. State experiment stations recommend it for preserving fence posts and other wood. Railroads use it for preserving ties, telegraph poles and bridge supports. Steamship companies use it for preserving docks and wharves. It is one of the most highly recommended agents in the nation-wide wood-preservation campaign.

That is why Ward's Wood Preservative is so highly recommended. It is a refined creosote oil product, especially designed for the preservation of wood. It penetrates the surface and seals the pores, protecting the wood from ground moisture and resisting the attack of insects and fungi. **(Applied inside of hog or hen house, lice will leave.)** Makes the wood last longer, postponing rot and decay and saving many dollars in repairs and replacements. Its cost is almost too small to be considered, compared to the value of the property it protects.

Apply with a brush or by dipping. If heated the liquid will penetrate more deeply. No other preparation necessary—no experience required. Five gallons is enough to treat about 100 fence posts or 150 to 200 square feet of surface when applied with a brush.

275 C 7759—50-gallon barrel. Per gallon 48¢
275 C 7758—25-gallon barrel. Per gallon 54¢
175 C 7757—5-gallon can. Per gallon....68¢
575 C 7756—1-gallon can...............83¢
Shipping weight, per gallon, 10 pounds
Barrels Shipped from Chicago

Broad Flat Paint Brush

For roofs and other large surfaces; 6 inches wide, 3½-inch black Chinese bristles, with mixed center. Set in cement.

75 C 705......................**$1.25**
Shipping weight, 10 ounces

Elastic Roof Paint

A good paint at a low price. For repairing and patching leaky roofs. Will stand expansion and contraction caused by weather without cracking or peeling. A leak can be stopped by first painting over the leak, then laying on a piece of muslin and coating again with another layer of paint. Glossy black finish. Ready to use. Apply with a brush—a knotted roofing brush is good for this work.

275 C 7743—50-gallon barrel. Per gallon. 30¢
275 C 7752—25-gallon barrel. Per gallon. 36¢
175 C 7751— 5-gallon can. Per gallon... 52¢
575 C 7750— 1-gallon can............. 70¢
Shipping weight, per gallon, 10 pounds
Barrels Shipped from Chicago

Pointing Trowel

For putting trowel roof cement around chimneys and corners. Shipping weight, 6 to 10 ounces.

84 C 2642—
4 inches long........................29¢
5 inches long........................32¢

Square End Trowel

For covering large surfaces. Shipping weight, 2 pounds.

84 C 2634—
11 inches long.....67¢
12 inches long.....75¢

Roofing Pitch

Prices Subject to Market Changes

For gravel or tar roofs, and waterproofing foundations below ground. Must be melted and applied hot with long handled roofing brush. In barrels only, weighing from 350 to 500 pounds.

275 C 8405—Per 100 pounds........**$1.50**
Sold only in lots of 350 pounds or more.
Shipped from Chicago

Liquid Coal Tar

For use on roofs, metal surfaces, water tanks, fence posts, etc. To get the best results—heat to near boiling point. Apply with a brush.

275 C 8413—50-gallon barrel. Per gal..30¢
275 C 8412—25-gallon barrel. Per gal..34¢
175 C 8411— 5-gallon can. Per gal.....50¢
575 C 8410— 1-gallon can..............65¢
Shipping weight, per gallon, 12 pounds
Barrels Shipped from Chicago

Asbestos Cement

For Patching Leaks 10¢ A Pound In 5-Pound Cans

For plugging up leaks in roofs, gutters, and around chimneys and skylights. May be used on brick, wood, tin, iron or glass.

Heavy but plastic—spread on with a trowel or putty knife. Waterproof, weatherproof. Does not dry out or become brittle.

575 C 7780—2½-pound cans..........35¢
575 C 7781—5-pound cans............50¢

Graphite Paint

Made for iron work, bridges and other exposed metal surfaces. Made in our own factory from natural graphite mixed and ground in linseed oil. Gray black in color. Durable, weather resisting. One gallon covers about 300 square feet, one coat.

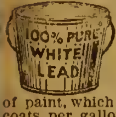
Shipping weight, per gallon, 15 pounds.

275 C 7777—50-gallon barrel. Per gal.$1.65
275 C 7776—25-gallon barrel. Per gal. 1.70
175 C 7775— 5-gallon can. Per gal.. 1.73
575 C 7774— 1-gallon can.......... 1.75
575 C 7772— 1-quart can.......... .53
Barrels Shipped from Chicago

Painters' Materials

White Lead in Oil

Guaranteed 100% Pure



For ordinary outside painting, use about 4 gallons of pure Raw Linseed Oil, 1 pint pure Spirits of Turpentine and 1 pint of Turpentine Japan Dryer (listed below) to 100 pounds of White Lead in Oil. This makes 7 gallons of paint, which covers about 200 square feet, two coats per gallon. However, we recommend using Coverall or Wardway Ready Mixed House Paint for best wear at lowest cost. (See Page 627.)

Prices Subject to Market Changes

Article Number	Quantity	Ship. Weight	Per Lb.
175 C 7825	100 pounds	106 pounds	12¼¢
475 C 7826	50 pounds	55 pounds	12½¢
475 C 7827	25 pounds	39 pounds	12½¢
475 C 7828	12½ pounds	15 pounds	12¾¢
575 C 7824	5 pounds	6 pounds	16¢
75 C 7823	1 pound	1¼ pounds	19¢

Old Dutch White

Ground in Oil

A combination of pure white lead, white zinc, and other paint making materials which is whiter than lead alone. Used instead of pure white lead.

Add 4 to 5 gallons pure Raw Linseed Oil, 1 quart of Turpentine and 1 pint Turpentine Japan Dryer to each 100 pounds of Old Dutch White. For a flat finish, reverse quantities of oil and turpentine.

Article Number	Quantity	Ship. Weight	Per Lb.
175 C 8020	100 pounds	106 pounds	9¢
475 C 8021	50 pounds	55 pounds	9½¢
475 C 8022	25 pounds	30 pounds	9½¢
475 C 8023	12½ pounds	15 pounds	10¢
575 C 8024	5 pounds	6 pounds	14¢

Venetian Red

Ground in Oil

Use 1 gallon Linseed Oil to 12 pounds Venetian Red.

575 C 7853—12½-pound can. Shipping weight, per can, 15 pounds................**$1.55**
575 C 7854—25-pound can. Shipping weight, per can, 30 pounds..................**$3.00**
175 C 7855 — 100-pound drum. Shipping weight, per drum, 106 pounds.......**$11.00**

Dry Red Lead

Shipping weights—50 pounds, 55 pounds; 25 pounds, 28 pounds; 5 pounds, 6 pounds; 1 pound, 1¾ pounds.

Per Lb.
475 C 7906—50-lb. drum. 14¢
475 C 7905—25-lb. drum. 14¢
575 C 7904— 5-lb. pkg... 15¢
75 C 7903— 1-lb. pkg... 16¢

Denatured Alcohol Shellac

Made from pure gum shellacs. Cut four pounds of the gum to each gallon of denatured alcohol. One gallon will cover 300 to 400 square feet, one coat.

White Shellac—Use where no color is desired.

75 C 8676—Pint can. $ .57
575 C 8677—Quart can 1.10
575 C 8678—½-gallon can.......... 2.15
575 C 8679—1-gallon can........... 4.25

Orange Shellac—Used on darker surfaces, such as oak; also for coating knots, etc., before painting.

75 C 8680—Pint can................$ .55
575 C 8681—Quart can.............. 1.06
575 C 8682—½-gallon can.......... 2.05
575 C 8683—1-gallon can........... 3.90

Shipping weights: Pint, 2½ pounds; quart, 4 pounds; ½ gallon, 7¼ pounds; gallon, 11 pounds. Caution: Thin Shellac with 188 Proof Denatured Alcohol. See Page 565 for Denatured Alcohol.

Special Dry Colors

For tinting. Red oxides and ochres may be used for painting, by mixing with linseed oil, although not recommended unless put through a paint mill. For shipping weights add 2 to 4 ounces per pound.

75 C 7884—Lamp Black. ¼-pound packages.........11¢

Per Lb.
75 C 7882—Lamp Black, Germantown. 1-pound packages. Shipping weight, 19 ounces 31¢
75 C 7926—Raw Umber, Turkey........10¢
75 C 7928—Burnt Umber, Turkey......10¢
75 C 7930—Raw Sienna, Italian........10¢
75 C 7932—Burnt Sienna, Italian.......10¢
75 C 7947—American Venetian Red..... 6¢
75 C 7951—Imperial English Venetian Red 6¢
75 C 7891—Ultramarine Blue..........40¢
75 C 7896—Chrome Green.............31¢
75 C 7941—Yellow Rochelle Ochre..... 4¢
75 C 7943—Imported Yellow Ochre.....12¢
75 C 7959—Prince's Mineral-Reddish Brown.............................. 5¢

Dry Colors in Barrel Quantities (350 pounds). Price 2c per pound less than above.

Cold Water Paint

For painting closets and pantries. Also much used for painting interiors of dairies, workshops and poultry houses. Apply either with a brush or sprayer. Pure white. Durable. Fire retardant approved by Fire Underwriters' Laboratories. Mixed with water, five pounds will cover about 400 square feet. **Not intended to take the place of oil paint.**

275 C 8451—350 lbs. Ship. wt. 370 lbs. Per lb. 5½¢
175 C 8450—100 lbs. Ship. wt. 112 lbs. Per lb. 6¢
475 C 8449— 50 lbs. Ship. wt. 58 lbs. Per lb. 6½¢
575 C 8448— 10 lbs. Ship. wt. 15 lbs. Per lb. 7½¢
575 C 8447— 5 lbs. Ship. wt. 7 lbs. Per lb. 8¢

Plaster Paris

To fill in plastered walls before papering or painting.

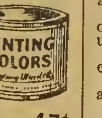
175 C 7913—225-pound barrel. Shipping weight, 240 pounds. Per pound.....................3¢
575 C 7914—Smaller quantities. For shipping add 2 to 4 ounces per pound. Per pound...... 5¢

Graining Colors in Oil

Paste form. Mix with one part Boiled Linseed Oil and two parts Turpentine. Mahogany, Cherry, Walnut, Light Oak or Dark Oak. State color wanted. Shipping weights, 1¼ and 6½ pounds.

75 C 8015—1-pound can...........$ .30
575 C 8016—5-pound can........... 1.40

Tinting Colors, Ground in Oil



When using do not add too much color at first. The lamp black is used for deepening colors and to make gray tints. Shipping weight, per can, 1¼ pounds.

1-Lb. Can
75 C 7976—Drop Black...24¢
75 C 7982—Lamp Black..29¢
75 C 7986—Ultramarine Blue..........47¢
75 C 7988—Italian Sienna (raw)........25¢
75 C 7989—Italian Sienna (burnt).......25¢
75 C 7990—Turkey Umber (raw).......25¢
75 C 7991—Turkey Umber (burnt)......25¢
75 C 7995—Chrome Green (medium)....27¢
75 C 8000—English Venetian Red.......26¢
75 C 8002—Indian Red................24¢
75 C 8003—Chrome Yellow (light)......30¢
75 C 8004—Chrome Yellow (medium)...30¢
75 C 8005—Chrome Yellow (dark)......30¢
75 C 8006—French Yellow Ochre.......20¢
75 C 8010—Permanent Red............35¢

Substitute for Turpentine

This Turpentine Substitute is used for thinning varnishes and paints, enamels and other interior finishes. It causes more rapid drying. It is used for the same purposes as spirits of pure turpentine, giving good results and is much lower in price.

Priming coats thinned with our turpentine substitute penetrate the wood, preparing a good surface for the finishing coats of paint.

Shipping weight, per gallon, 10 pounds.

575 C 7694—1-quart can. Shipping weight 3¾ pounds..............................26¢
575 C 7695— 1-gallon can...........68¢
175 C 7696— 5-gallon can...........65¢
275 C 7698—25-gal. bbl. Per gal... 60¢
275 C 7699—50-gal. bbl. Per gal... 55¢

Graining Colors—Ready Mixed

One gallon Graining Color covers about 400 square feet.

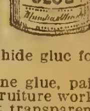
Colors: Light Oak; Golden Oak; Dark Oak.

Be sure to state color wanted.

Shipping weight, per gallon, about 11 pounds.

575 C 8030—1-pint can............$ .35
575 C 8031—1-quart can........... .60
575 C 8032—1-gallon can.......... 2.25

Flake and Ground Glue



Ground Glue is a clear flake glue, amber in color and ground to dissolve more quickly. An extra quality for kalsominers' use. May also be used for all general purposes.

Amber Flake is a very fine quality flake glue for decorators' use; also for ordinary gluing.

White Cabinet Flake is a pure hide glue for cabinet work, also for frescoing.

Superior Flake is a hide and bone glue, pale amber in color and used for finest furniture work.

Transparent Flake is a thin cut transparent gelatin glue.

Carpenters' Ribbon Glue is a bone and hide glue, amber color exceptionally strong. Shipping weights, 2 to 4 ounces per pound extra.

Per Lb.
75 C 8560—Ground Glue.............20¢
175 C 8562—Ground Glue in 200-pound barrels. Shipping weight, per barrel, 215 pounds.............................18¢
75 C 8563—Amber Flake.............22¢
175 C 8565—Amber Flake in 200-pound barrels. Shipping weight, per barrel, 215 pounds.............................20¢
75 C 8566—White Cabinet Flake......40¢
75 C 8570—Superior Flake Glue......28¢
175 C 8572—Superior Flake Glue in 200-pound barrels. Shipping weight, per barrel, 215 pounds.............................26¢
75 C 8573—Transparent Flake Glue... 48¢
75 C 8576—Carpenters' Ribbon Glue.. 40¢

Turpentine Japan Dryer

Excellent binder and strong dryer. Mixes readily and does not injure the life of the paint. Shipping weights: Pint, 2¾ pounds; quart, 4 pounds; gallon, 11½ pounds.

75 C 8720—Pint.......$ .25
575 C 8721—Quart..... .42
575 C 8722—½ gallon .. .75
575 C 8723—1 gallon ... 1.25
175 C 8724—5 gallons .. 5.75

Putty in Cans

Ready to use. Standard quality. Airtight tins keep it fresh and moist. Shipping weights: 3-pound can, 3¾ pounds; 5-pound can, 6 pounds; 10-pound can, 11½ pounds.

75 C 7852— 3-pound can...30¢
75 C 7851— 5-pound can...40¢
75 C 7850—10-pound can...75¢

Mending Glue

Transparent, waterproof. Mends wood, glass, metal, cloth, rubber, etc. Makes strong, permanent joints. Collapsible tube, 5 inches long. Shipping weight, per tube, ½ pound.

75 C 8585—Per tube.............24¢

For repairing furniture and broken articles made of wood. Ready to use.

75 C 8580—1 ounce. Shipping wt., 4 ounces......................10¢
75 C 8581—½ pint. Shipping wt., 1¾ pounds...................30¢
75 C 8582—1 pint. Shipping weight, 2½ pounds...................50¢
75 C 8583—1 quart. Shipping wt., 4 pounds......................80¢

Double Glue Pots

Made of iron. Inner vessel has porcelain enamel lining. Shipping weights, 4 to 9 pounds.

75 C 784—½-pint size.....$ .90
75 C 785—1 pint size...... 1.10
75 C 786—1 quart size..... 1.35

Wood Bleacher—For bleaching weather or water stained window, sills, floors, etc. In 4-ounce and 1-pound packages.

75 C 8444—4-oz. pkg. Ship. weight, 6 oz..15¢
75 C 8445—1-lb. pkg. Ship. weight, 19 oz.50¢

Finishing Materials

Powdered Rotten Stone. For polishing after rubbing down with pumice. Dip cloth or rubbing felt into oil or water, then into rotten stone and rub to a polish. Shipping weight, per pound, 1¼ pounds.

75 C 7878—
Per pound.........9¢

Powdered Pumice Stone. A fine grade English Powdered Pumice. For rubbing down varnished surfaces, before polishing. Shipping weight, per pound, 1¼ pounds.

75 C 7875—
Per pound....$ .12
25-pounds 1.95

Rubbing Felt. Used with Rubbing Oil and Pumice Stone in polishing. Shipping weight, 1 pound.

75 C 8279— Hard Felt, 5 in. square..40¢

75 C 8280 — Soft Felt, 6 in. square..30¢

The Practical House, Wagon and Auto Painter. Directions for mixing and applying paints and varnish. Also hints on paper hanging and sign painting. Cloth bound. Shipping weight, 12 ounces.

57 C 3725....98¢

Quality Rubbing Oil. For polishing varnished or enameled surfaces. Shipping weights: Pint, 2½ pounds; quart, 4 pounds; gallon, 11 pounds; 5 gallons, 45 pounds.

75 C 8281—1 pint...................24¢
575 C 8282—1 quart..................30¢
575 C 8283—1 gallon.................85¢

Sand Paper—Emery Paper—Emery Cloth

In packages containing convenient sized sheets; 4 by 5 inches. Shipping weight, about 4 ounces.

75 C 993—20 sheets Sandpaper assorted... 9¢
75 C 995—12 sheets Emery Paper assorted 9¢
75 C 997—6 sheets Emery Cloth assorted 9¢

Use Coverall House Paint. See Page 626

Send for This FREE Building Material Catalogue

If you can't find what you want on this page, write for our Special BUILDING MATERIAL CATALOGUE. It lists our complete line of building material.
Everything you need for repairs, rebuilding or new work described and illustrated in this book.

We quote you the lowest prices because enorm buying power enables us to purchase the materials lowest costs. And we make shipments direct from mill. Buy direct from us and be sure of both high qual and low price. Send today for FREE copy.

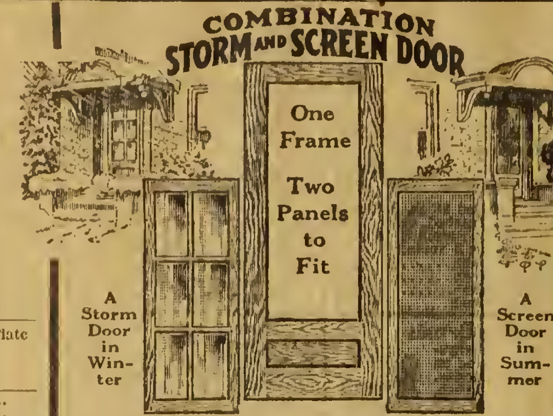
York — Whittier

White Pine or Fir
Front Doors

These doors are typical of the great savings we offer you in high grade mill work of all kinds. The **York** is an exceptional value in a good No. 2 quality fir door, 1⅜ in. thick. The **Whittier** is manufactured from Clear White Pine. Glazed with double strength glass or beveled plate as shown. 1¾ in. thick. Average shipping weight, 60 pounds.

Style of Door	Size of Door	Double Strength Glass	Beveled Plate Glass
		Article Number 274 C 445	
York Design	2 ft. 6 in. x 6 ft. 6 in.	$3.95	....
	2 ft. 8 in. x 6 ft. 8 in.	4.10	....
		Article Number 274 C 427	Article Number 274 C 426
Whittier Design	2 ft. 8 in. x 6 ft. 8 in.	$8.85	$17.95
	3 ft. 0 in. x 7 ft. 0 in.	10.35	22.75

Shipped Promptly from Mill in Eastern Iowa
For Other Doors, Write for FREE Building Material Catalogue



This convenient double duty door is made of Clear White Pine—strong, durable, well built throughout, 1⅛ inches thick. Screen panel is covered with best grade galvanized wire cloth. Storm panel glazed with good quality clear plain glass. Doors are ¾ inch longer than sizes listed to allow for drop in sill. Furnished in the "white"—not painted or varnished.

Width	Height	Shipping Weight	Article Number 274 C 483
2 ft. 6 in.	x 6 ft. 6 in.	65 pounds	$5.85
2 ft. 8 in.	x 6 ft. 8 in.	70 pounds	6.10
2 ft. 8 in.	x 7 ft. 0 in.	75 pounds	6.30
3 ft. 0 in.	x 6 ft. 8 in.	78 pounds	6.65
3 ft. 0 in.	x 7 ft. 0 in.	80 pounds	6.95

Shipped Promptly from Mill in Eastern Iowa

Beautiful Fir
Interior Doors

Fir Doors are very popular for interior use because of their beautiful grain and because they can be finished to match almost any trim. Here are two of the most popular styles—the five and two-panel designs. (For others, write for Building Material Book.) All doors 1⅜ inches thick. Average shipping weight, 40 pounds.

Size Width	Height	5-Panel No. 2 Fir 274 C 492	5-Panel No. 1 Fir 274 C 491	2-Panel No. 1 Fi 274 C 4
2 ft. 0 in.	x 6 ft. 0 in.	$2.95	$3.25	$3.40
2 ft. 0 in.	x 6 ft. 6 in.	3.35	3.60	3.80
2 ft. 0 in.	x 6 ft. 8 in.	3.40	3.70	3.90
2 ft. 6 in.	x 6 ft. 6 in.	3.38	3.65	3.85
2 ft. 6 in.	x 6 ft. 8 in.	3.45	3.75	3.95
2 ft. 8 in.	x 6 ft. 8 in.	3.50	3.80	4.00
2 ft. 6 in.	x 7 ft. 0 in.	3.95	4.30	4.55
2 ft. 8 in.	x 7 ft. 0 in.	4.05	4.40	4.65
3 ft. 0 in.	x 7 ft. 0 in.	4.35	4.75	5.00

Shipped Promptly from Mill in Eastern Iowa
For Other Doors, Write for FREE Building Material Catalog

"A" Quality White Pine
Storm Doors

"A" quality White Pine storm door, built to last for years. Full 1⅛ inches thick. Furnished in sizes shown, unpainted and unvarnished. Sizes are a little larger than the stock door sizes; are made so the storm door can be trimmed down until a perfect fit is obtained. Order by number 274 C 484 and state size wanted.
Average shipping weight, 60 pounds.

Width	Length	Price
2 feet 6¾ inches	6 feet 7 inches	$4.35
2 feet 8¾ inches	6 feet 9 inches	4.70
2 feet 8¾ inches	7 feet 1 inch	5.10
3 feet 0¾ inches	7 feet 1 inch	5.70

Shipped Promptly from Mill in Eastern Iowa

Lumber and Millwork. We are in position to quote you lowest prices on siding, flooring, stair work, porch materials etc., **delivered to your station. Send us a list of your requirements.**

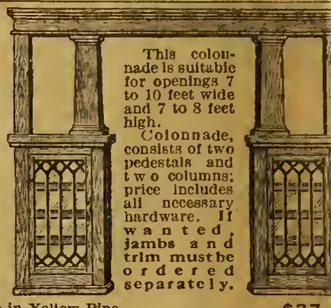
Barn and Dairy Sash

Clear White Pine barn sash, 4, 6 or 9 lights to sash. (Illustration shows the popular 4-light style.) 6 and 9-light sash, 1⅜ inches thick; 4 light, 1⅛ inches thick. Shipping weight, each, 12 to 18 pounds.

Article Number	Description	Size of Glass Inches	Size of Opening Width Height Ft. In. Ft. In.	Price
274 C 550	9 light sash	9 x 12	2- 7½ x3- 5½	$1.80
274 C 551	6 light sash	9 x 12	2- 7 x2- 5	1.20
274 C 553	6 light sash	8 x 14	1- 8 x3-11	1.48
274 C 552	4 light sash	8 x 10	1- 8 x2- 1	.75
274 C 552	4 light sash	9 x 12	1-10 x2- 5	.86
274 C 552	4 light sash	10 x 12	2- 0 x2- 5	.92
274 C 552	4 light sash	12 x 14	2- 4 x2- 9	1.20

Shipped Promptly from Mill in Eastern Iowa

Bookcase Colonnade



This colonnade is suitable for openings 7 to 10 feet wide and 7 to 8 feet high.
Colonnade, consists of two pedestals and two columns; price includes all necessary hardware. If wanted, jambs and trim must be ordered separately.

A colonnade is decidedly attractive when placed between living room and dining room. This is one of the newest designs with bookcase in pedestals having movable shelves and leaded glass doors.

Pedestals are 2 feet wide by 4 feet high by 10 inches deep. Columns are 6 inches square, 4 feet long, tapered.

274 C 823—Colonnade in Yellow Pine....................$37.
274 C 824—Colonnade in Oak.................................46.
Jambs and trim complete for opening up to 10 feet wide and 8 feet fi
274 C 857—Yellow Pine, per set.............................$ 5.
274 C 858—Oak, per set.......................................13.
Shipped Promptly from Mill in Eastern Iowa. Shipping weig 200 pounds

A Nail Will Not Crack Protecto's Fire Resisting Core

Ward's Protecto Plaster Board, sometimes called sheet plaster, is better and cheaper than lath and plaster.

Any one can put it up—no need for hiring special workmen. No mess or trouble—no dampness, odor or other inconvenience. No waiting for the plaster to dry. No lath stains or settling cracks. Protecto makes a smooth, even wall that stays smooth and even as long as the building lasts. Shipped ready to put up and the minute it is up it is ready for decorating. For extra fine work, especially if you desire to tint the walls, we recommend using our Protecto Crack Filler, listed below.

Protecto has a specially constructed plaster core, made by rolling a patent hard setting plaster between two sheets of tough cardboard and allowing it to dry into hard solid sheets. Ready sized can be painted, kalsomined or wall papered as desired; fire resisting. A good, safe, durable board made for long hard service.

Nails will not crack Ward's Protecto. Nail it directly to the studding. Ward's Protecto is made in a wide range of widths and lengths—you can order a size that can be used for your walls with practically no waste.

Samples on request.

Order by Number 274 C 311 and State Size

Size Inches	Sq. Ft. Per Sheet	Thickness	Price Per Sheet	Ship. Weight Per Sheet
32x 36	8	5⁄16 inch	$ .24	14 pounds
32x 36	8	⅜ inch	.25	15 pounds
32x 48	10⅔	⅜ inch	.51	22 pounds
32x 72	16	⅜ inch	.76	34 pounds
32x 84	18⅔	⅜ inch	.89	40 pounds
32x 96	21⅓	⅜ inch	1.01	46 pounds
32x108	24	⅜ inch	1.14	52 pounds
32x120	26⅔	⅜ inch	1.27	57 pounds
48x 72	24	⅜ inch	1.15	48 pounds
48x 84	28	⅜ inch	1.33	56 pounds
48x 96	32	⅜ inch	1.52	64 pounds
48x108	36	⅜ inch	1.71	72 pounds
48x120	40	⅜ inch	1.90	80 pounds

Shipped from Factories in Central Mich., Western New York, Central Ohio or Northern Iowa

Protecto Crack Filler

Makes a smooth, even seamless wall. To use, mix with water. Order 5 pounds for each 500 square feet of board.
574 C 312—5-pound package. Shipping weight, 7 pounds......................................**50¢**

3 Layers of Heavy Card Board Joined together with Asphalt Cement

Ward's Superb Fiber Wall Board is popular because it is light in weight and saves money on freight charges. Also it is easy to handle yet strong and durable.
Superb is a form of manufactured lumber—knotless, crackless and can be sawed or nailed the same as any other kind you might buy.
Constructed of three layers of heavy cardboard joined with adhesive asphalt. Already sized—can be painted, papered or kalsomined without further treatment.
Any one can put it up. Nail it right to the studding, thus saving the expense of lath, "headers" or extra support. Convenient lengths and sizes. Put on with ordinary bung head or flat head 4-penny nails.
Choice of Three Finishes—Gray, Tan or Golden Oak
The gray or mill finish should be ordered where it is intended either to paint or kalsomine walls. The tan and golden oak are suitable for temporary decorative effects, but we cannot guarantee these colors not to fade. Golden Oak finish can be supplied in 32-inch width only.
Sample sent upon request

Order by Number and State Size

Width of Sheet Inches	Length of Sheet Feet	Ship. Weight Sheet Pounds	Gray Finish Per Sheet 274 C 300	Tan Finish Per Sheet 274 C 301	Golden Oak Finish 274 C 302
32	6	14	$ .48	$ .52	$ .73
32	8	18	.64	.70	.96
32	9	20	.72	.78	1.10
32	10	22	.80	.87	1.22
32	12	26	.95	1.04	1.46
48	6	20	.73	.77	We supply above finish in 32-inch width only.
48	7	23	.84	.91	
48	8	26	.96	1.03	
48	9	29	1.08	1.17	
48	10	32	1.20	1.30	
48	12	38	1.44	1.55	

Shipped Direct from Factory in Cincinnati, Ohio

Superb Crack Filler

For making smooth, even walls. Order about 6 pounds of filler for each 1,000 feet of 48-inch board and 9 pounds per 1,000 feet of 32-inch. Order number
74 C 305
1-pound can......$ .30
5 pounds.......... 1.10
10 pounds 2.00
For shipping weight, add ⅛ pound to each pound net.

Superb Panel Strips

Yellow Pine. Thickness, 5⁄16 inch. Width, 1¾ inches. Ship. wt., per 100 lineal feet, 15 lbs.
274 C 308—
Per 100 feet..............**$2.00**
Shipped from Factory in Ohio

Superb Joint Tape

Gummed strips of tough fiber paper to cover joints. 100 feet in roll, strip 1½ inches wide. Ship. weight, per roll, 8 ounces.
74 C 306—Gray.
Per roll.....................**45¢**
74 C 307—Tan.
Per roll.....................**45¢**

White Pine Windows, Frames and Storm Sash

In our FREE Building Material Catalogue, you will find our complete line of windows, window frames and storm sash. We quote here, for your convenience, a few of the more popular sizes; but if you do not find what you want, write for our FREE Building Material Catalogue.
Windows—Best Quality White Pine—glazed with single or double strength glass. Check rail. Thickness, 1⅜ inches. Plowed and bored for use with or without weights.
Frames—Clear White Pine—Plain Drip Cap. Outside casing, 13⁄16 inches thick. Width of jamb, 5¼ inches, including blind stop. (This is correct width for wall with 2 by 4 studs.) Shipped knocked do all grooved and fitted. Pulleys included.
Storm Sash—Best Quality White Pine—glazed with single or double strength gl Thickness, 1⅛ inches. Ventilators in bottom rail, 10c additional.
Note—Storm sash are made 1½ inches longer than window opening sizes gi below, to allow for fitting and the slant of sill on window frame. Always state wi first when ordering.
Average shipping weight of windows and storm sash, 30 pounds; frames, 50 pou

Size of Glass 2-Light	Size of Opening Width Ft. In.	Height Ft. In.	274 C 520 Window Single Strength	274 C 521 Window Double Strength	274 C 622 Frames 13⁄16 inch Casing	274 C 560 Storm Sash Single Strength	274 C Storm S Doub Stren
16 x 28	1-8 x	5- 2	$1.78	$2.07	$2.76	$1.78	$2.0
20 x 20	2-0 x	3-10	1.64	1.88	2.47	1.64	1.9
20 x 24	2-0 x	4- 6	1.86	2.16	2.70	1.86	2.1
20 x 26	2-0 x	4-10	1.97	2.28	2.79	1.97	2.3
20 x 28	2-0 x	5- 2	2.06	2.44	2.86	2.06	2.4
22 x 24	2-2 x	4- 6	1.98	2.29	2.75	1.98	2.3
22 x 26	2-2 x	4-10	2.07	2.45	2.84	2.07	2.4
22 x 28	2-2 x	5- 2	2.19	2.59	2.92	2.19	2.6
24 x 20	2-4 x	3-10	1.85	2.15	2.59	1.85	2.1
24 x 22	2-4 x	4- 2	1.96	2.27	2.72	1.96	2.3
24 x 24	2-4 x	4- 6	2.18	2.58	2.81	2.18	2.6
24 x 26	2-4 x	4-10	2.20	2.60	2.88	2.20	2.6
24 x 28	2-4 x	5- 2	2.39	2.85	2.96	2.39	2.8
24 x 30	2-4 x	5- 6	2.58	3.06	3.05	2.58	3.1
26 x 22	2-6 x	4- 2	2.18	2.58	2.76	2.18	2.6
26 x 24	2-6 x	4- 6	2.20	2.60	2.85	2.20	2.6
26 x 26	2-6 x	4-10	2.41	2.84	2.94	2.41	2.8
26 x 28	2-6 x	5- 2	2.64	3.14	3.02	2.64	3.1
26 x 30	2-6 x	5- 6	3.24	3.42	3.10	3.24	3.4
28 x 24	2-8 x	4- 6	2.40	2.85	2.91	2.40	2.8
28 x 26	2-8 x	4-10	2.65	3.15	2.99	2.65	3.1
28 x 28	2-8 x	5- 2	2.86	3.43	3.06	2.86	3.4
28 x 30	2-8 x	5- 6	2.89	3.45	3.15	2.89	3.5

Fireplace Fixtures

Andirons

Used inside grate during summer instead of basket. Heavy cast iron, black finish. Height, 16 inches. Shipping weight, 15 pounds.
274 C 908—
Per pair
......**$2.65**

Fireplace Baskets
274 C 940

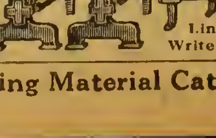
Burn either coal or wood. Made of cast iron, neat black finish.

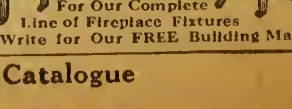
Width Front Inches	Depth Inches	Width Back In.	Ship Wt. Lbs.	Price
19	12	16	50	$5.10
21	12	18	55	5.35
23	12	20	60	5.50
25	13	22	65	5.70
28	13	25	75	6.35
31	13	28	85	7.00

Shipped from Ohio Foundry.

Fireplace Sets

Stand, shovel, tongs, poker. Black finish cast-iron. Height, 27 inches. Shipping weight, 25 pounds.
274C925—Set. $3.75





For Our Complete Line of Fireplace Fixtures Write for Our FREE Building Material Catalogue

Send for our FREE Building Material Catalogue

Send for this FREE Book of Wardway Homes

In it are shown more than one hundred modern and up-to-date homes, cottages and garages. The designs have been selected because of their individual merits and desirable features. Every detail of construction, ventilation, light, etc., has been carefully worked out by our experts.

These are not experimental or theoretical homes. Every model shown actually has been built and has stood the test of time.

One Machine in a Wardway Mill Does the Work of 10 Carpenters

Complete Materials—No Extras to Buy

With every order for a Wardway home we give our written guarantee that we will supply sufficient materials of all kinds to build the home complete according to our plans and specifications. This takes the guess work out of building, as you can determine before you start just what your building will cost you. The Wardway System eliminates "extras."

Modern Construction—Finest of Materials

Wardway Homes are built according to the most modern and approved construction methods. Well insulated walls make them warm in winter and cool in summer. They are sturdy, attractive homes, suitable for any family.

Only the best grades of materials are furnished throughout. All lumber exposed to view on both the exterior and interior of our homes is clear and knotless. The hardware includes solid bronze outside door lock sets. Our best quality Wardway House Paint is furnished. In every respect Wardway Homes will please you.

Prompt Shipments—Safe Delivery Guaranteed

The mills and factories from which Wardway Homes are shipped are situated at the most advantageous shipping points. This insures low freight rates and prompt service. No matter where you live—North, South, East or West—we can ship to you promptly and economically from one of four conveniently located mills.

The Florence
A Typical Value in a Wardway Home

$1198

Our Price Includes:

LUMBER	FLOORING	DOORS
LATH	FINISH	WINDOWS
SHINGLES	MOULDINGS	FRAMES

BUILT-IN CONVENIENCES. All necessary hardware, hinges, locks, etc. Varnish for floors and woodwork. Three coats of Outside Paint (any color desired.) Complete plans and instructions for building.

The "Florence" is one of our most popular five room bungalows. It contains five rooms, bath and a big front porch—an ideal home for the average family.

Everything seems to harmonize so perfectly in this well proportioned and well designed home. The shingled side walls, the broad comfortable porch, the exposed rafters and sturdy roof brackets all combine in making the exterior of the home exceedingly attractive. The Craftsman front door and quaint Colonial windows also add their part, giving a distinctive touch of individuality which makes the "Florence" pleasingly different from the ordinary home.

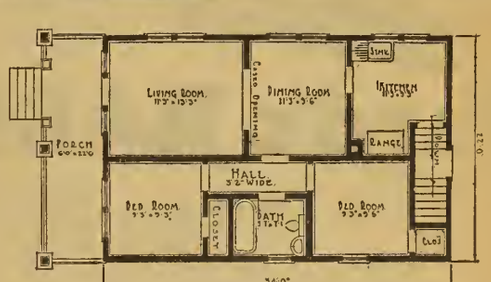
We are certain you will agree that the floor plan of this design could not be improved. The rooms are all of good size, well proportioned and properly lighted and ventilated. Entering through the beautiful glazed front door, flanked by windows on either side you gain the impression of an unusually large living room because of the wide cased opening which has the effect of combining living and dining room and yet really preserving their separate identity.

The bedrooms and bath are conveniently located on a connecting hall which keeps them entirely separate from the other rooms of the house—a most desirable arrangement.

The kitchen has a most convenient location for the range while a twin window admits a flood of light on the sink and work table. The combined rear and grade entrance, which is but three steps below the level of the kitchen floor, make it possible to take supplies in and out of the basement without going through the kitchen.

For a more detailed description of this and over 100 other Wardway Homes, cottages and garages, write for our Free book of Wardway Homes. Use the coupon below.

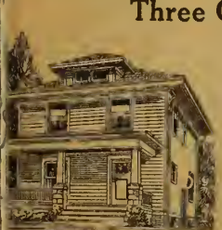
A Cozy Five-Room Cottage



Two Bed Rooms and Bath

Size of the Florence Home, 22 Feet by 34 Feet

Three Other Popular Wardway Homes



The Bellevue
Wardway Square Home
Popular for town or county. Big, roomy, lots of light. Attractive entrance, well arranged rooms, convenient kitchen.

The Roysten
A Wardway Bungalow
A well planned 4-room cottage with plenty of windows and a cozy front porch. Extra closet space. Built in conveniences.

The Carlyle
A Striking Wardway Design
A charming 3 bedroom bungalow in the "Craftsman" style. Large porch, heavy timbered construction and massive brackets.

Mail Coupon Today

MONTGOMERY WARD & CO., Chicago, Illinois.

Please send me a copy of your FREE book of Wardway Homes

Your Name .....

Street or R.F.D. No. .....

Post Office ..... State .....

☐ Mark X in square at left if you would also like a copy of our FREE Building Material Catalogue (described at top of opposite page).

Ward's RADIO ROOFING

TRADE MARK

$2.10 A Roll — Our Highest Quality Guaranteed Roofing Ends Your Roofing Troubles for the Next 15 Years

Why bother with that leaky roof? Re-roof NOW with Radio Slate-Surfaced Roofing and your roofing troubles will be over for the next fifteen years.

RADIO Roofing makes a safe roof; and it makes a **beautiful** roof. It is heavy and fire-resisting and its colors never fade. It is easy to lay—can be put on right over old wood shingles. It needs no paint—each rain washes it clean and restores its original beauty. It is waterproof and spark proof. It is approved by the **Underwriters' Laboratories** (under direction of the **National Board of Fire Underwriters**). **WE GUARANTEE IT FOR FIFTEEN YEARS.**

Radio Roofing is the equal of any standard slate-surfaced roofing you can buy anywhere. It weighs 85 pounds per roll and is extra strong and durable. Constructed of heavy, thick felt, thoroughly saturated with asphalt and then given an extra coating of asphalt on both sides to make it doubly waterproof. The surface of natural crushed slate is rolled on under heavy pressure and is rain proof, sun proof and not affected by heat or cold.

Reduces Fire Danger. Radio Roofing is a better protection than a wood shingled roof and the crushed slate-surface will never catch fire from flying sparks. Radio Roofing will reduce your insurance by reducing the danger of fire.

In full-sized rolls, 40½ feet long and 32 inches wide. Each roll contains 108 square feet or enough to cover 100 square feet (a surface 10 feet by 10 feet).

Lay It Yourself. No experience is required. The only tools needed are a hammer and a jackknife. Complete directions for laying, also nails and cement for the laps, included with each roll. You can lay it right over an old wood shingled roof without removing the old shingles. Simply use the rolls with the extra long nails supplied especially for this purpose.

On new or old buildings use Radio Roofing. It is always safe, always sound and always a good investment.

Has Used 100 Squares

"Have purchased about 100 squares of your roofing in past 3 years and found it very satisfactory."

C. L. Darrow, Edinboro, Pa.

Printed with Mr. Darrow's permission

Prices Per Roll—Red or Green

174 C 54—Red, with cement and regular 1-inch nails included **$2.10**
174 C 55—Red, with cement and long nails for use over old roofs **2.18**
174 C 56—Green, with cement and regular 1-inch nails included **2.10**
174 C 57—Green, with cement and long nails for use over old roofs **2.18**

Shipping weight, per roll, 85 pounds

Shipped from Warehouse nearest you

Shipped Promptly from Stock in Chicago, St. Louis, Mo., York, Pa. Also Shipped from Warehouse at Atlanta, Ga. When Shipped from Atlanta, our price (freight not included) is 40¢ per roll extra

A Customer For 21 Years

"I have found your roofing to be all O. K.; better quality and lower priced than I could have found here. I have been a customer of Montgomery Ward & Co. for 21 years."

Noah Cade, Morgantown, Ky.

Printed with Mr. Cade's permission

RADIO Shingle Roll Roofing

Red or Green Slate Surface

Guaranteed 15 Years!

Of the same high quality and superior construction as our Radio Slate Surfaced Roofing, except that the crushed slate surface is finished with a shingle design as shown. When laid it looks like a stained wood shingle roof. Roll 32 inches wide and 40½ feet long; contains 108 square feet, or enough to cover 100 square feet and allow for 2-inch laps at the seams. Nails and cement included. Directions furnished. Actual weight and shipping weight, per roll, 85 pounds.

174 C 40—Red, with regular 1-in. nails. Per roll **$2.95**
174 C 41—Red, with long nails; for laying over wood shingles. Per roll.. **$3.03**
174 C 42—Green, with regular 1-inch nails. Per roll. **$2.95**
174 C 43—Green, with long nails; for laying over wood shingles. Per roll... **$3.03**

Shipped from Warehouse nearest you. Chicago, St. Louis, Mo., or York, Pa.

$2.95 A Roll

RADIO V-End Strip Roofing

Red or Green Slate Surface

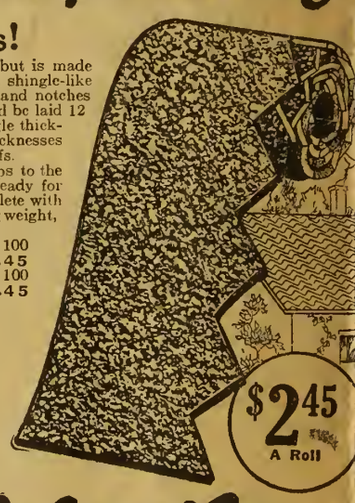
Guaranteed 15 Years!

This is the same quality roofing as our Radio, but is made in strips which are notched on one side to give a shingle-like appearance. These strips are 17½ inches wide, and notches are cut 3 inches deep by 9 inches wide. Should be laid 12 inches to the weather. Makes a good, heavy, single thickness roof all over building, and gives two full thicknesses at the laps. Suitable only for steep or sloping roofs.

Radio V-End Strip Roofing is packed two strips to the roll. Illustration at right shows a single strip ready for laying. Rolls are 48 feet long and are packed complete with 1-inch galvanized nails. Actual weight and shipping weight, per roll, 90 pounds.

174 C 132—Red. Per roll (enough to cover 100 square feet) **$2.45**
174 C 133—Green. Per roll (enough to cover 100 square feet) **$2.45**

Shipped from Warehouse nearest you. Chicago, St. Louis, Mo., or York, Pa.



$2.45 A Roll

Radio Ridge or Valley Strips

Made of same material as Radio Roofing. Length, 40½ feet. Two widths: 8 inch for covering ridges, 16 inch for covering valleys of roofs. Order nails separately. Shipping weights, 8-inch width, 19 pounds; 16-inch width, 38 pounds.

174 C 65—Red. Width, 8 inches. Per roll. **$ .55**
174 C 66—Red. Width, 16 inches. Per roll **1.10**
174 C 67—Green. Width, 8 inches. Per roll ..... **.55**
174 C 68—Green. Width, 16 inches. Per roll **1.10**

Ward's RADIO Asphalt Shingles

The Modern, Up-to-Date Roofing—Attractive and Fire Resisting

Choice of Red or Green

A roof laid with Radio Asphalt Shingles costs only a few dollars more than a wood shingled roof. But the first cost is the last cost. Once it is put on, you need not think of it again for 15 years. It is not affected by the weather and requires no attention after laying. Easy to lay—do the job yourself.

Guaranteed for 15 Years!

Radio Asphalt Shingles are absolutely waterproof, sparkproof and fire resisting. They not only make a good looking roof for either city or country homes, but are a reliable protection against weather and fire. Your choice of Individual or Strip (Four-in-One) Shingles. See prices below.

Four-in-One Strip Shingles

Radio Strip Shingles are four shingles in one—save time and labor in laying. Made of the same material as Radio Roll Roofing (listed above), except material is a little heavier.

Use 2½ pounds of 1-inch nails per square if laid directly to the deck, or 5 pounds of 1¾-inch nails per square if laid over old wood shingles. Order nails separately (see opposite page).

We guarantee Radio Asphalt Shingles, both Strip and Individual types, for 15 years.

SIZE, 32⅓ inches long, 10 inches wide; 112 strips per square. Shipped in two crates, 56 strips to each crate. A square covers 100 square feet. Actual weight and shipping weight, per square, 200 pounds.

174 C 117—Red. Per square. **$5.45**
174 C 118—Green. Per square. **5.45**

Individual Asphalt Shingles

These Individual Shingles are easily laid. Same construction as our Strip Shingles, except come single instead of four-in-one. Make roof of three thicknesses, and of four thicknesses where nailed. Fire resisting, sparkproof. Safer and longer lasting than a wood shingle roof.

Use four pounds of 1-inch galvanized nails per 100 square feet. Order nails separately. (Article Number 74 C 195.) See opposite page.

SIZE, 12¾ inches long, 8 inches wide; 424 shingles per square are shipped in four packages, 106 shingles to each package. A square covers 100 square feet of surface. Actual weight and shipping weight, per square, 240 pounds.

174 C 122—Red. Per square. **$5.75**
174 C 123—Green. Per square **$5.75**

All Shingles Shipped Promptly from Stock in Chicago, York, Pa., St. Louis, Mo., Louisville, Ky.

Prices Subject to Market Changes

You will find Lakeside Hammers and other good Tools listed on Pages 586 to 595

Ward's ATLAS ASPHALT ROOFING

TRADE MARK.

Our Best Smooth Surfaced Roofing

Choice of Light, Medium or Heavy

Guaranteed 7, 10 or 12 Years

$1.40 Per Roll
35 Pound Weight

A new Atlas roof costs but little more than repairing an old one. And with Atlas you are protected for many years to come.

ATLAS Asphalt Roofing is protection from sun and rain in summer—from ice and snow in winter. Atlas Roofing resists heat, cold and moisture. Special mica surface is an added insulation against the burning heat of the summer sun. Atlas Roofing will not melt in the hottest climate nor crack in the coldest. It is waterproof and weatherproof and the medium and heavy weights are approved by the Underwriters' Laboratories (under direction of the National Board of Fire Underwriters). WE GUARANTEE IT FOR 7, 10 or 12 YEARS, according to the weight used.

Made of tough, long-fiber felt thoroughly saturated and coated on both sides with mineral asphalt, which will not dry out or evaporate. On the asphalt coating is a finishing layer of powdered mica, which is embedded in the asphalt coating under pressure, so it cannot wash or blow off. Mica is a perfect non-conductor of heat and electricity and its glittering surface reflects the rays of the hot sun and gives added protection to the roofing, so that it wears at least one-fourth longer than roofings finished in the ordinary way.

You Can Lay It Yourself. No experience is needed. And the only tools required are a hammer and a jackknife. Nails, cement and complete directions for laying included with each roll. Can be laid right over old wood shingles (order the rolls with the extra long nails).

Atlas Roofing lasts longer and costs less than wood shingles or metal roofs. It is much superior to wood shingles for roofing steep roofs and it is also recommended for comparatively flat roofs where shingles cannot be used.

Choice of 3 Standard Weights. All three weights are the same reliable quality—the only difference being in the thickness and weight. Recommended for every type of building—house, barn or garage.

Rolls are 32 inches wide, 40½ feet long, and contain 108 square feet—enough to cover 100 square feet of roof, allowing a 2-inch lap.

Has Used Atlas for 20 Years

"I have used the Atlas Roofing for 20 years and have had better service from it than from any other roofing at any price."

P. A. Dixon,
Bayard, W. Va.

Printed with Mr. Dixon's permission

LIGHT—Weight, per roll, 35 pounds. Guaranteed 7 years.
174 C 20—With regular nails. Per roll..... **$1.40**
174 C 21—With extra long nails. Per roll..... **1.48**

MEDIUM—Weight, per roll, 45 lbs. Guaranteed 10 years.
174 C 24—With regular nails. Per roll..... **$1.65**
174 C 25—With extra long nails. Per roll..... **1.73**

HEAVY—Weight, per roll, 55 pounds. Guaranteed 12 years.
174 C 28—With regular nails. Per roll..... **$1.90**
174 C 29—With extra long nails. Per roll..... **1.98**

Shipping weights are same as actual weights

Shipped from Warehouse nearest you

Shipped Promptly from Stock at Chicago, St. Louis, Mo.; Louisville, Ky., York, Pa. Also Shipped from Warehouse at Atlanta, Ga. When Shipped from Atlanta, our price (freight not included) is 25¢ per roll extra

Saved $1.00 Per Roll Buying from Ward's

"I think your roofing is very good and well worth the money. I saved about $10.00 on 10 rolls. I also saved money on sheathing."

Fred Kratzer,
Genoa, N. Y.

Printed with Mr. Kratzer's permission

Ward's Combination Roofing

Big Value in a Low Priced Roofing

We offer our Combination Roofing to meet the demand for a good, serviceable, low priced roofing for covering inexpensive structures or for temporary work. It is an excellent quality, standard weight, talc surfaced asphalt roofing which gives excellent service. Thoroughly weatherproof and waterproof.

Made of a sheet of roofing felt, saturated and coated on both sides with asphalt. The surface is dusted with powdered talc. Made in three weights, each of the same quality.

Rolls are 32 inches wide and contain 108 square feet—enough to cover 100 square feet of roof area, allowing for a 2-inch lap. Rolls are packed complete with large head roofing nails and liquid asphalt cement for the laps.

No Experience Required to Lay It

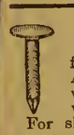
Anyone can lay this roofing. We furnish complete directions with each roll, which makes the application a very simple matter. The only tools required are a knife for cutting the roofing into the proper lengths and a hammer for nailing it to the roof boards. May be laid either side up—both sides are talc coated.

We do not give a specific time guarantee on Combination Roofing as we do on Radio, Atlas and Lakeside Roofing, but consider it an excellent value at the price. Shipping weights same as actual weights.

174 C 87—Light. Actual weight, 35 pounds. Per roll.... **$ .98**
174 C 88—Medium. Actual weight, 45 pounds. Per roll.. **1.25**
174 C 89—Heavy. Actual weight, 55 pounds. Per roll... **1.50**

Shipped Promptly from Stock in Chicago, York, Pa., St. Louis, Mo., Louisville, Ky. Also shipped from Warehouse at Atlanta, Ga. When Shipped from Atlanta, our price (freight not included) is 25¢ per roll extra.

Roofing Nails



Heavy Wire Nails as furnished with our Asphalt Roofing. Galvanized and rustproof, with wide flat heads. For shipping weights, add 1 ounce per pound to net weight.
74 C 195—1-inch. Per lb. **8¢**
74 C 196—1¾-in. Per lb. **8¢**

Barbed Wire Roofing nails to be used with tin roofing caps. Specify 1, 1¼ or 1½-inch. Use 1 to 1½ lbs. per roll. For ship. wts. add 1 oz. per lb.
74 C 184—Plain. All sizes. Lb.. **6¢**
74 C 190—Galv. All sizes. Lb. **8¢**
74 C 180—Tin Roofing Caps. (Use 1½ lbs. per roll.) Per pound.... **9¢**

Prices on nails subject to market changes

Ward's Lakeside Roofing

Guaranteed 5, 7 or 10 Years

Ward's Lakeside Asphalt Roofing is an unusually high grade, corrugated surface (talc finish) asphalt roofing. Suitable for all types of buildings. It is thoroughly weatherproof, waterproof, and fire resisting; is not affected by extremes of temperature or by frost, rain, sleet or snow. It does not soften and run during the heat of the summer or become brittle or crack in the coldest weather. It may be used in any climate and is not affected by acid, fumes, steam or gases.

Made of High Grade Materials

Lakeside Asphalt Roofing is made of a sheet of roofing felt, thoroughly saturated with genuine asphalt and coated on both sides with a heavy layer of specially selected asphalt which effectively protects the saturation (the life of the roofing) from attack of the elements. The surface is then given a light dusting of powdered talc to prevent sticking in the rolls. Especially adapted for homes, farm buildings, barns and garages. Anyone can put it on—no special tools needed.

Each roll of Lakeside Asphalt Roofing is packed complete with large head roofing nails and liquid asphalt cement for the laps. Complete directions with each roll. Rolls are 32 inches wide and contain 108 square feet—sufficient to cover 100 square feet and allow for 2-inch lap at the seams. Made in three standard weights, each of the same high quality, the only difference being in the weight. Heavy, guaranteed for 10 years. Medium, guaranteed for 7 years; Light, guaranteed for 5 years.

Lakeside Asphalt Roofing is a valuable fire protection. The medium and heavy weights are approved by the Underwriters' Laboratories, Inc. This means that you save on insurance. Shipping weights are same as actual weights.

174 C 30—Light. Actual weight, 35 lbs. Per roll.. **$1.30**
174 C 32—Medium. Actual weight, 45 lbs. Per roll **1.55**
174 C 34—Heavy. Actual weight, 55 lbs. Per roll. **1.80**

Shipped Promptly from Stock in Chicago, York, Pa., St. Louis, Mo., Louisville, Ky. Also Shipped from Warehouse at Atlanta, Ga. When Shipped from Atlanta, our price (freight not included) is 25¢ per roll extra.

Asbestos Building Felt

Use This Felt for Covering Furnace Pipes

This is the standard Asbestos Sheathing. An excellent insulator for heat and cold. For lining buildings, refrigerator cars and ice houses. Deadens sound when used between floors and for general building purposes.

Extensively used for covering warm air pipes for furnaces. Will not burn even if brought into contact with flames. Rolls contain 450 square feet. Width, 36 inches. Price is subject to market changes. Actual weight, and shipping weight, per roll, 50 pounds.

174 C 244—Per roll..... **$3.25**
Shipped from Stock in Chicago

Blue Plaster Cardboard

A strong, durable Cardboard of tough texture, used for sheathing and under clapboards, and especially for sheathing walls and ceilings of temporary buildings, attics and cellars. Applied over boards or direct on studding with large head tacks and covered with wall paper or wood panel strips at the seams. Purple blue color. Width of roll, 36 inches.

174 C 234—Rolls contain 250 square feet. Actual weight and shipping weight, per roll, 30 pounds. Per roll..... **85¢**

174 C 235—Rolls contain 500 square feet. Actual weight and shipping weight, per roll, 60 pounds. Per roll.... **$1.65**

Shipped from Chicago, York, Pa., or St. Louis, Mo.

Red Rosin Sized Sheathing

For use under siding and between floors. Made of best pulp paper stock with a hard smooth surface, thoroughly rosin sized, which helps to exclude wind, moisture and vermin. Tough, clean and durable.

Rolls contain 500 square feet. Width, 36 inches. Prices subject to market changes. Shipping weights same as actual weights.

174 C 218—Light. Actual weight, per roll, 20 pounds. Per roll..... **55¢**

174 C 220—Medium. Actual weight, per roll, 30 pounds. Per roll..... **82¢**

174 C 223—Heavy. Actual weight, per roll, 40 pounds. Per roll..... **$1.10**

Shipped from Chicago, St. Louis, Mo., or York, Pa.

Herald Tarred Felt Sheathing

Made from tough felt, thoroughly water-proofed with distilled tar. For use between sheathing and siding, also in lining floors. Resists wind and moisture. Strong and durable. Better than ordinary building paper. Clean to handle.

The faint tar odor of this sheathing keeps away mice, rats and insects. Rolls contain 500 sq. ft. Width, 36 inches. Price is subject to market changes. Actual weight, and shipping weight, per roll, 45 pounds.

174 C 226—Per roll..... **$1.65**
Shipped from Chicago, St. Louis, or York, Pa.

Standard Deadening Felt

Nothing is more annoying than to hear every footstep and sound from the floor above. This Felt will help to overcome this trouble. It deadens the sound through floors and walls. Makes an excellent protection against frost and also insulates against heat.

Adds greatly to the comfort and warmth of the home when used between floors. It is made thick and heavy. Each roll contains about 450 square feet. Width, 36 inches. Price is subject to market changes. Actual weight and shipping weight, per roll, 50 pounds.

174 C 237—Per roll..... **$2.25**
Shipped from Chicago and St. Louis, Mo.

Tarred Roofing Felt

A good grade of tough Felt, saturated with distilled coal tar. Used for roofing sheds and temporary structures. Also used in making built-up tar and gravel roofs.

Order tin caps and nails separately, as they are not included. Use 1½ pounds tin caps and 1 pound nails to each roll.

Rolls contain 350 square feet. Width, 36 inches. Price is subject to market changes. Actual weight and shipping weight, per roll, 55 pounds.

174 C 249—Per roll... **$1.65**
Shipped from Chicago, St. Louis, Mo., or York, Pa.

Ward's Sattley Farm Equipment

Made in Our Own Factory

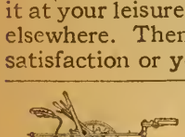
Send for This FREE Book

It Pays to Use Good Farm Equipment

NOT only does it pay in money, it pays in satisfaction. Plan now for this Fall and Winter and for 1923. What new equipment will you need to get the most from this year's crops and to make the most during the year ahead?

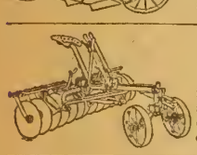
On the following pages we have not shown all of our big line of farm equipment. Articles usually purchased during Spring and Summer have been omitted. You therefore will not find in this General Catalogue such machines as Mowers, Cultivators, Tillage Implements and other equipment not used during Fall and Winter.

Write for our big special Catalogue of Ward's Sattley Farm Equipment. Study it at your leisure. Compare qualities, mechanical features and prices with those offered elsewhere. Then send us your order under the complete protection of our guarantee—satisfaction or your money back. Send now for the Big Sattley Book!



Sattley Riding Plows

One and two-bottom sizes, right and left hand; also three-bottom power lift Tractor Plows; jointers, rolling coulters, weed hooks and attachments.

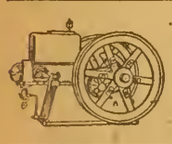


Sattley Tillage Tools

Disc harrows; reversible disc harrows; spring-tooth harrows; steel and wood bar peg harrows; soil crushers; harrow carts; one-horse cultivators.

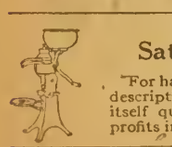
Ward's Windmills

Ward's Ball Bearing Windmills are solving the water problem on farms everywhere. Quiet, powerful, long lived. Mill and tower may be ordered separately.



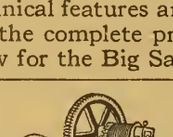
Sattley Engines

See complete description in this catalogue. Let a Sattley pump water, grind feed, churn, wash, shell corn and do scores of other back-breaking jobs for you.



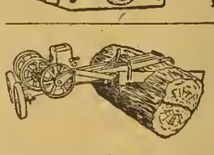
Sattley Cream Separators

For hand, engine or electric power. Complete description given in this catalogue. Pays for itself quickly by the cream it saves. Puts profits into dairying and takes drudgery out.



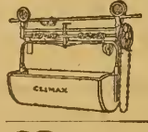
Cane Machinery

Cane mills for use with horses, capacities 30 to 120 gallons per hour; mills for belt power, capacities, 1 to 4 tons per hour; also furnaces and evaporating pans.



Sawing Outfits

Portable log sawing outfits with engines; powerful saw rigs with engines mounted on trucks; sliding, tilting and swing saw frames; mandrels.

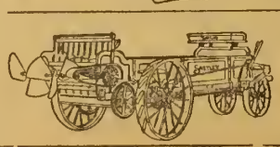


Dairy Barn Equipment

Litter carriers; ensilage trucks; wood and steel stanchions; rod and steel rail tracks; water tanks of all kinds, and other dairy barn accessories.

Sattley Walking Plows

One and two horse; wood and steel beam; middle busters; brush plows; prairie breakers; sandy land series for Southern soils; right and left hand.



Sattley Spreader

Spread the barn yard manure with a low down, wide spread Sattley — keep the soil fertile and reduce fertilizer bills.

GEORGE H. MUNNS,
Manager, Farm Equipment Division

To Our Farmer Customers:

I was born and raised on a farm—lived on a farm for many years—so I can call myself a practical farmer.

I always have been very glad of the early days I spent on the farm. They taught me the necessity for hard work and the value of perseverance.

They gave me the practical experience and ground work for handling the Implement and Farm Equipment Department of Montgomery Ward & Co.

Here at Ward's we realize fully that the success of this Department depends on how well we serve you year after year. For that reason we constantly study your needs and the needs of other farmers and strive always to keep our line abreast of the times.

This Department was started in a small way. Ever since we have worked hard to give to our customers the utmost in quality, service and value. It has paid both us and our customers, for the business has grown rapidly until today it is one of the important factors in the Implement industry.

While this exceptional growth alone is a convincing evidence of our splendid values, we do not expect you to buy from us on the strength of our past reputation. Everything you buy from us is backed by Montgomery Ward & Co.'s fifty-year old guarantee—"Satisfaction Guaranteed or your Money Back." We could not make it fairer.

Remember, too, we are interested in your problems and want to help you if we can. Do not hesitate to write us; your inquiries about our line and your suggestions for its improvement always are welcome.

GEORGE H. MUNNS,
Manager, Farm Equipment Division

Freight Rates Lowered

The reduction in freight rates July 1st was an incident of great importance to all our customers. Even when freight rates were higher, big savings were made possible by our low prices. Now that the rates have been lowered, still greater savings may be made by ordering your farm equipment and other supplies from this catalogue. The new rates leave more money in your pocket for every article we ship you by freight.

See Page 320. In order that you may determine easily the freight charges on any of our farm equipment, we have carefully prepared the Freight Table printed on page 320. Select from this Catalogue the equipment you need. Get the total shipping weight of the different items. Then consult the Table. The freight charges will be much less than you ordinarily would expect.

When you buy from Ward's you get dependable equipment at prices which represent the combined savings of manufacturing in large quantities, selling by low cost methods and one-profit prices.

Write Today for Our Farm Equipment Catalogue

For our line of Barn Equipment refer to the Index. Pages 323 to 333

Ward's Sattley Cream Separators

No matter how few or how many cows you milk, you want the Separator which will get the most cream. You want a separator which is sanitary and easily cleaned; one which is sturdily built for lasting service. So confident are we of the superiority of the Sattley that we not only are willing, but are anxious, to have you order one on our Free Trial Offer and compare it feature for feature with any other separator on the market. If after 30 days' trial you are not convinced that the Sattley offers greater value than you can obtain elsewhere, return it to us at our expense, and your money together with all transportation charges you have paid, will be promply refunded.

Read carefully the Sattley features listed below and note the sturdy base shown in the large illustration at the right. To skim properly, the bowl, at all times, must be kept level. That is why we use a heavy square base which stands solidly on the floor and holds the fast whirling bowl in the correct position always. It does not pull or tug at the lag screws; machine cannot vibrate.

The Sattley, built by our own experts in our own factory, meets all requirements of close skimming, easy operation, cleanliness and long life. It is as nearly perfect as skilled workmen can make it. Your satisfaction is guaranteed.

$47.50 Cash with Order

No. 15—Skims 180 Quarts Per Hour

375 Pound Capacity Practical size for dairies of 1 to 5 cows. Speed of crank, 60 R.P.M. Turns easily. Shipping weight, 160 pounds. **$47.50**

289 C 4615—Price, cash with order.....**$47.50**
Easy Payment Price, $5.00 with order and balance in nine easy monthly payments of $5.55 each.....**$54.95**

No. 17—Skims 250 Quarts Per Hour

500 Pound Capacity Our most popular size for dairies of 1 to 10 cows. Speed of crank 60 revolutions per minute. Very easy running. Shipping weight, 170 pounds. **$57.60**

289 C 4617—Price, cash with order.....**$57.60**
Easy Payment Price, $5.00 with order and balance in nine easy monthly payments of $6.65 each.....**$64.85**

No. 19—Skims 375 Quarts Per Hour

750 Pound Capacity For dairies of 4 to 20 cows. Turns easily. Popular size for use with power attachment 289 C 4658. Speed of crank, 55 revolutions per minute. Shipping weight, 190 pounds. **$64.95**

289 C 4619—Price, cash with order.....**$64.95**
Easy Payment Price, $5.00 with order and balance in nine easy monthly payments of $7.55 each.....**$72.95**

No. 21—Skims 475 Quarts Per Hour

950 Pound Capacity For 5 to 30 cows. Usually operated with attachment 289 C 4658; may be operated by hand. Speed of crank, 50 R.P.M. Shipping weight, 210 pounds. **$71.75**

289 C 4621—Price, cash with order.....**$71.75**
Easy Payment Price, $5.00 with order and balance in nine easy monthly payments of $8.50, each.....**$81.50**

Write for Special Catalog

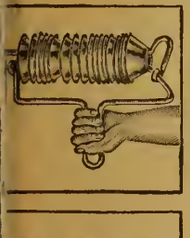
Shipped from Factory in Springfield, Illinois

Self-Oiling Splash System

No oil cups to fill or adjust. One supply of lubricant is sufficient for three to four months. Absolutely does away with any chance of oil coming in contact with the milk or dripping on the floor; prevents hot bearings; saves time, money and trouble.

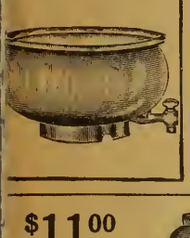
Skimming Bowl

There are but 30 to 33 discs in a Sattley Separator and every one is a producer — each one skimming 100 per cent from the entire surface. This means increased profits. Discs are of pressed steel, heavily tinned. Steel discs tinned are more efficient in skimming and more sanitary than nickel plated discs.



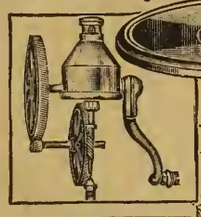
Easy to Clean

Note simple way in which skimming discs are removed and how easily they are washed and sterilized. Takes only two to four minutes to give them a thorough scalding and dry them. Each disc is pressed from one piece of steel and is heavily tinned.



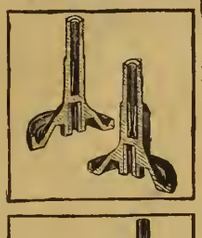
Anti-Splash Supply Can

Shaped so that when milk is poured in there is no splashing or slopping over. Made of extra heavy pressed steel of one piece, heavily tinned, no seams or bends to catch dirt. Sanitary and easily cleaned. Can deliver full capacity to the last drop of milk.



Simple in Construction

Illustration shows bowl, spindle and gearing with frame removed. Note simple, strong direct gearing and improved noiseless clutch. Gears wide-faced and accurately cut; faces of all teeth ground and polished after being cut to insure faultless operation.



Full Feeding Tubular Shaft

Illustration shows tubular shaft cut in half.

Note three slot openings in shaft feed from top to bottom. Milk is thus fed to all discs. Three wings on side break up whole-milk wall, insuring cleaner separation. This is an exclusive Sattley feature.

Center Balanced Bowl

Bowl is supported by the spindle midway between top and bottom, avoiding top-heaviness, wobbling, or springing. Sattley bowls run only 6,000 to 7,000 r. p. m. to get same skimming effect produced by other bowls running 9,000 to 15,000. This means less wear — longer life.

Superior Neck Bearing

The new top bearing is the simplest and most satisfactory ever devised for the purpose. Bearings are special die castings accurate to 10/1000th of an inch; made of an anti-friction metal — far superior to babbitt, and almost frictionless.

See Page 625 for Easy Payment Blank

30 Days Free Trial

Easy Payment Plan

For the benefit of our customers who prefer to buy our Separators on Easy Payments, we will ship any Separator on receipt of Five Dollars with order and balance of easy payment price in nine monthly payments starting after 30 days' trial. See special order blank on Page 625.

Skim Very Closely

Sattley Separators skim so closely that it takes a Babcock test to detect the trace remaining. The skimming bowl is the heart of a separator; our engineers, after spending years in designing and experimenting, have perfected a bowl which cannot be excelled by any separator on the market. The bowl center or tubular shaft is made of a solid piece of steel, and 42 separate machine operations are required to make it. Three wings are scientifically placed inside the bowl center; these wings distribute the milk in thin streams over all the discs, not over a few only. Each disc does its maximum work, thereby separating more thoroughly and getting practically all the butter fat from the milk. That is the reason the Sattley Separators are so well known for their close skimming.

Other reasons why Sattley Separators make friends on the farm are: the low price for exceptionally high quality; their economy in day to day operation; and the increased profits from the cream yield. They are easy to operate; a child can run a Sattley. Accuracy of bearings, improved gears, self-balancing bowl, and self-oiling system — all of these mean easiest running. The speed of the bowl is low — only half the speed of others, so that it does not break up the butter-fat, yet separates it perfectly. Not the least important, Sattley Separators are just the right height; they are easy to fill without spilling the milk, and are less tiresome for women to operate. No unnecessary parts to clog or make it hard to clean and operate.

Table of Estimated Freight Charges for Your Information

Article	Shipping Weight	Approximate Freight Charges 150 Miles	300 Miles	500 Miles
No. 15—Hand Separator	160 pounds	$1.10	$1.15	$1.60
No. 17—Hand Separator	170 pounds	1.20	1.25	1.70
No. 19—Hand Separator	190 pounds	1.30	1.45	1.85
No. 21—Hand Separator	210 pounds	1.45	1.60	2.10

Power Attachment For Sattley Separators

$11.00

Shipped from factory in Springfield, Illinois

The new Sattley Power Drive is one of the simplest and best means of driving a hand separator yet devised. It is important that the transmission of power to a separator be uniform and regular, and a novel feature of this attachment is the idler pulley belt tightener, which, by a coiled spring, automatically absorbs all shocks resulting from irregularities in the speed of the engine. Outfit consists of frame with set screws, tight and loose pulleys, belt shifter, idler pulley and spring, driving pulley, short leather belt as shown, and an extended shaft for worm gear, longer than regular to take pulley. Leave crank on and run by hand or power as desired.

289 C 4658—Shipping weight, 30 pounds.....**$11.00**

State size, number, bowl number, and capacity of separator.)

It is preferable to have the Power Attachment built into the separator at the factory. We will attach it without charge to your new machine at time of purchase, or to your old one if you will return it. **Write us for information before shipping.**

Rubber Bowl Rings for Sattley Separators

Sold only in packages of 6 rings.

Rubber Bowl Rings for Sattley Separators Nos. 15, 17, 19 or 21. **(Be sure to state size, number, serial number and bowl number of your Sattley Separator.)** Shipping weight, per package, 4 ounces.

37 C 4660—Package of 6 rings .....**39¢**

Rubber Bowl Rings for Sattley Golden Harvest Separators Nos. 17, 25, 37 or 50. Shipping weight, per package, 3 ounces.

37 C 4662—Package of 6 rings .....**36¢**

Rubber Rings for Sattley Golden Harvest Separators Nos. 70 or 90. Shipping weight, per package, 4 ounces.

37 C 4664—Package of 6 rings .....**38¢**

Rubber Rings for separators bought previous to January 1, 1917. Be sure to state serial number of bowl stamped on bowl-nut or bowl cover or bottom of bowl. Serial number also stamped on edge of bowl casting surrounding bowl; also state capacity and size, number and date of purchase of separator. Shipping weight, per package, 4 ounces.

37 C 4666—Package of 6 rings .....**48¢**

Electric Driven Separators

SAVE time and labor, run your Cream Separator by electricity. Your farm lighting outfit or any electrical power will run it. Just attach the electric cord to your light socket the same as you would for an electric iron, washing machine or other household appliance, nothing complicated about it. The electric drive insures a constant uniform speed of the bowl, which results in the closest possible skimming.

The Sattley Electric Drive is so arranged that the hand crank remains in place and it may be turned by hand if so desired.

Mention in your order whether you have direct or alternating current and give voltage. If alternating, state whether single, two or three phase and number of cycles. Your electric company will furnish you with this information.

For Farm Power Lighting Outfits

32-Volt Direct Current

Sattley Electric Drive Separator complete, with 32-volt direct current motor (for use with battery lighting plan), with knife switch, fuse plugs and 10 feet of insulated wire. **State voltage and kind of current.**

	Easy Payment Price	Cash Price
289 C 4630—375-pound capacity	$ 95.00	$ 84.45
289 C 4631—500-pound capacity	104.75	93.10
289 C 4632—750-pound capacity	116.40	103.45
289 C 4633—950-pound capacity	124.00	110.25

For Electric Company Power

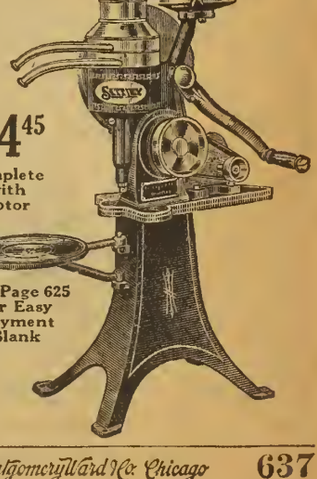
110 or 220-Volt Alternating Current

Sattley Electric Drive Separator, complete, with 110 or 220-volt, 60-cycle alternating current motor, 10 feet of cord with plug socket. **State voltage and nature of current.**

	Easy Payment Price	Cash Price
289 C 4640—375-pound capacity	$ 97.25	$ 86.45
289 C 4641—500-pound capacity	106.00	95.10
289 C 4642—750-pound capacity	119.20	105.95
289 C 4643—950-pound capacity	126.85	112.75

Average shipping weights: 375-pound capacity, 220 pounds 500-pound capacity, 230 pounds; 750-pound capacity, 250 pounds; 950-pound capacity, 270 pounds.

Shipped from Factory in Springfield, Illinois



$84.45 Complete with Motor

See Page 625 for Easy Payment Blank

Superior Cream Separator

$3.75

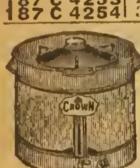
Is operated by adding to the milk an equal quantity of cold water or ice. As the water mixes with the milk the cream separates and rises to the top. You always have sweet diluted milk, which is a much better stock food than sour milk.

Deep cone bottom with faucet permits drawing off milk without disturbing cream.

Made of extra heavy tin, lock seamed and soldered. Tank enameled blue outside and decorated. Three 20-inch hardwood legs. Average height, 43 inches. Price includes tank with gauge glasses, reversible cover with strainer, faucet and hardwood legs.

Article Number	Capacity	Shipping Weight	Price Each
487 C 4250	10 gallons	12 pounds	$3.75
187 C 4251	14 gallons	14 pounds	4.35
187 C 4252	18 gallons	16 pounds	5.15
187 C 4253	24 gallons	20 pounds	5.90
187 C 4254	32 gallons	36 pounds	6.70

Cream Separator Double Can



Keeps cream cool and separates cream from milk, in four to six hours. Inner tank for milk made of pure charcoal tin with an upright tube connected with the water in the outside tank. This provides complete circulation of cool water both inside and outside the milk tank. Outer or water tank made of galvanized steel. Gauge glasses in both cans show depth of cream. Separate faucets to draw off water or milk.

Article Number	Capacity: Milk Tank	Capacity: Water Tank	Ship. Wt.	Price Each
487 C 4258	4 gals.	9 gals.	14 lbs.	$5.65
187 C 4259	8 gals.	18 gals.	20 lbs.	6.60
187 C 4260	12 gals.	26 gals.	24 lbs.	7.45

Milk Cooler and Aerator

Takes out animal heat and odor; cools and aerates milk as it flows from perforations around bottom of upper tank and over drum. Heavy tin plate drum and galvanized steel bottom plate. Double cheesecloth strainer with spring pins. Agitator for stirring ice mixtures. Full directions.

Article Number	Cap. Qts.	Size of Dairy	Ship. Wt.	Price Each
187 C 4264	18	1 to 25 cows	27 lbs.	$6.10
187 C 4265	34	25 to 50 cows	35 lbs.	7.35
187 C 4266	52	50 to 100 cows	40 lbs.	8.65

Cream Setting Cans

Cream Cans with strong bails and wood handles.

Extra deep covers. We quote special low prices for crate of six cans and do not sell smaller quantities. The capacities given are trade capacities but actual capacities are 12½ and 18 quarts, respectively. Shipping weights, 20 and 26 pounds.

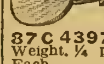
Article Number	Capacity	Per Crate of 6
187 C 4312	14 quart	$2.80
187 C 4314	20 quarts	3.35

Butter Mold

Makes one-pound prints. When wrapped, they just fit the Parcel Post Butter Box. Size of print can be adjusted to weigh from ¾ to 1¾ pounds. Shipping weight, 1 pound.

87 C 4400.....45¢

Hard Maple Butter Ladle



87 C 4397—Ladles. Weight, ¼ pound. Each.........**17¢**

Hard Maple Butter Spades

87 C 4398—Spades, 10 by 3 inches, Weight, 5 ounces. Per pair.**18¢**

Milk Can Strainers

Pressed steel bowl—no seams. Heavily tinned. 10½ in. across top. 4½-inch brass strainer cloth. Shipping weight, 14 ounces.

87 C 4357......**52¢**

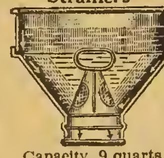
Milk Can Strainer

Heavy tinned; 8¾ inches at top; 3½-inch brass strainer cloth. Weight, 10 ounces.

87 C 4358......**29¢**

87 C 4359—Large Milk Can Strainer. Double seamed. 11½-inch top; 5-inch brass strainer cloth. Band to fasten extra cloth. Weight, 1⅓ pounds.........**$1.15**

Milk Can Strainers



Capacity, 9 quarts

Made of extra heavy XXX tin highly polished with two screens, 60 and 80-mesh brass wire cones which edge in place, easily removed for cleaning. No direct pressure against strainers. Diameter, 11 inches; neck, 4½ inches. Height, 9½ inches.

Shipping weight, 2¼ pounds.

87 C 4353.$2.95

Babcock Milk Testers

Prices include test bottles, funnel brush, acid measure, pipette and complete directions. Heavy cast frame with special clamp to attach to table. Machine cut spiral and worm spindle enclosed in grease tight case. Detachable bottle holder with swinging pockets. Average shipping weight., 14 pounds.

Not Mailable

187 C 4342—4-bottle size. For milk.**$6.15**
187 C 4344—2-bottle size. For milk.. **5.50**
187 C 4340—4-bottle, milk and cream **6.50**
187 C 4341—2-bottle, milk and cream **6.00**

New Steel Churn

$3.10

The strong construction, the light weight and the ease with which it is cleaned, are three features of this Steel Churn which women will appreciate.

Easy To Clean. One turn of thumbscrew releases dasher so that it may be removed quickly and easily for cleaning. Dasher made of fine grain hardwood and attached to steel rod which is heavily tinned to permit easy cleaning. After dasher is removed churn case may be lifted from frame and easily cleaned.

Churn case is heavy steel, triple tinned inside and baked enamel finish outside. Legs and standards all steel, firmly riveted together and coated aluminum finish. Gear, wheels and top castings made of iron. Lids select hardwood, natural finish.

487 C 4215—Capacity, 2 gallons. Shipping weight, 9 pounds..................**$3.10**
487 C 4216—Capacity, 3 gallons. Shipping weight, 13 pounds..................**$3.80**
487 C 4217—Capacity, 4 gallons. Shipping weight, 15 pounds..................**$4.50**
487 C 4218—Capacity, 6 gallons. Shipping weight, 15 pounds..................**$5.60**

Hand Power Churn

$5.00

Made of the same high grade material and in the same careful way that has made Hawthorne Churns favorites for many years.

Seasoned clear white oak throughout; pine cover, reinforced. Bails are attached to malleable bolted ears on the outside of the churn. The stands are of hardwood. Cover has cork gasket to prevent leaking. Barrel varnished natural finish with hoops painted to prevent rusting. Complete directions sent with every churn. Shipping weights, 28 to 45 pounds.

Article Number	Cap. Gals.	Churns Gals.	Price Each
187 C 4200	6	1 to 3	$5.00
187 C 4201	10	1 to 5	5.70
187 C 4202	15	2 to 7	6.30
187 C 4203	20	3 to 10	6.95

Power Churn

$9.80

This churn will enable you to put another job on the shoulders of your engine.

Varnished oak barrel, rustproof hoops and extra heavy frame. All sizes have 12 by 2¼-inch tight and loose pulleys; also crank. 10 and 15-gallon capacities should make 60 revolutions per minute; 20 and 25-gallon capacities, 50 revolutions per minute. Complete directions with every churn. Crank for hand operation also supplied. Shipping weights, 55 to 95 pounds.

Shipped from Factory in Northern Illinois

Article Number	Cap. Gals.	Churns Gals.	Price Each
287 C 4208	10	2 to 5	$ 9.80
287 C 4209	15	2 to 7	10.35
287 C 4210	20	3 to 10	11.00
287 C 4211	25	4 to 12	12.75

187 C 4684—Churn Pulley Sets, tight and loose 12 by 2¼ inches. Weight, 19 pounds..**$3.50**

Milk Bottle Caps

Heavy, plain paraffined Caps for No. 2 standard milk bottles.

4000 Caps—Galvanized Pail $1.70

87 C 4410—Carton containing 1000 caps Shipping weight, per carton, 2½ pounds...**36¢**
87 C 4416—4000 caps in 14-quart galvanized pail. Shipping weight, per pail, 12 lbs..**$1.70**
87 C 4417—Carton containing 10,000 caps. Shipping weight, per carton, 25 pounds.**$3.50**
187 C 4414—Barrel containing 50,000 caps. Shipping weight, per barrel, 130 lbs..**$15.75**

Climax Milk Bottles

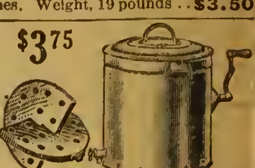
$1.00 Dozen Quarts

Made of clear, flint glass with inside shoulder at top to take No. 2 standard milkcaps. Correct capacities. Shipping weights, per dozen quarts, 26½ pounds; per dozen pints, 16 pounds; per dozen half pints, 11 pounds. **Not advisable to send by mail.**

Article Number	Size	Dozen	Three Dozen	Six Dozen
187 C 4330	Qts.	$1.00	$2.75	$5.15
187 C 4331	Pts.	.78	2.00	3.70
187 C 4332	½pts.	.60	1.50	2.80

Perfection Sanitary Churn

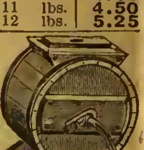
$3.75



Made of extra heavy XXX tin plate; rounded bottom inside; small quantities of cream can be churned easily even in largest size churn. Removable clear ash. Dasher easily taken apart. Full directions with each churn.

Article Number	Cap. Gal.	Churns Gallons	Shipping Weight	Price Each
487 C 4232	3	½ to 1½	7½ lbs.	$3.75
487 C 4233	5	1 to 2½	10 lbs.	4.15
187 C 4234	7	1 to 3½	11 lbs.	4.50
187 C 4235	10	2 to 5	12 lbs.	5.25

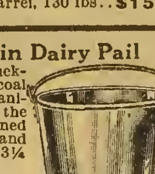
Cedar Cylinder Churn



Made from high quality clear cedar. Lock and crank made of cast iron, heavily tinned. Has a four-paddle dasher. Crank locked to Churn with clamp and thumbscrews, which prevents leakage. The hoops and metal parts are galvanized. Ship. wts., 14 to 25 lbs.

Article Number	Cap. Gals.	Churns Gals.	Height Inches	Lgth. In.	Price Each
487 C 4226	3	2	15	9½	$3.30
487 C 4227	4	3	17	11½	4.00
187 C 4228	7	4	18½	13¾	4.65
187 C 4229	10	6	20	15½	5.35

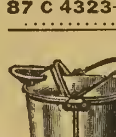
Extra Heavy Tin Dairy Pail



Not the common light bucket but a heavy tinned charcoal plate Pail; durable and sanitary. Worth several of the cheaper kind; heavy tinned ears; heavy wired top rim and bail. Net weight, 3 and 3¼ pounds.

87 C 4322—12-quart ....**59¢**
87 C 4323—14-quart ....**66¢**

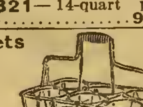
Strainer Pails



Extra heavy tin. Steel bound. Riveted steel ears with heavy bail. Brass strainer and lipped pouring spout. Sanitary and easily cleaned. Shipping weight, about 4 pounds.

87 C 4320—12-quart pail ....**89¢**
87 C 4321—14-quart pail ....**98¢**

Milk Delivery Baskets



Heavy twisted tinned steel wire. Lighter, more sanitary and stronger than galvanized sheet steel. Very convenient for delivering milk.

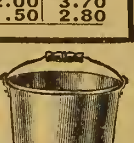
87 C 4354—Holds 4 quart and 2 pint bottles. Shipping weight, 2½ pounds...............................**75¢**
87 C 4355—Holds 6 quart bottles. Shipping weight, 2⅜ pounds.......................**82¢**

Parcel Post Butter Boxes

No. 1, one pound size, for standard butter prints, 4¾ by 2⅝ by 2⅝ inches. No. 2, 5⅛ by 4¾ by 2⅝ inches, holds two one-pound prints.

87 C 4394—No. 1. Per dozen. Shipping weight, 1¾ pounds........**30¢**
87 C 4395—No. 2. Per doz. Wt., 2½ lbs.**35¢**

12-Quart Dairy Pail 35¢



A good quality, well made Dairy Pail. Not a light pail, but medium weight and well made. Good heavy ears, rim and bail.

Capacity, 12-quart. Net weight, 2½ pounds.

87 C 4318—Each.......**35¢**

Parchment Paper

For wrapping butter cheese, sandwiches, meat and lunches. Keeps butter cean and sweet for market.

The same weight and quality as used by the best creameries throughout the country. Our Parchment Paper is a pure white, tough vegetable fiber, 30-pound stock, heavy parchment; 1000, 500 and 250 sheets packed in cardboard boxes. Shipping weight, per 1000 sheets, 8 to 10 pounds.

Article Number	Size Inches	250 Sheets	500 Sheets	1000 Sheets
87 C 4406	8x11	51¢	$ .87	$1.62
87 C 4408	9x12	61¢	1.06	1.98

Milk Bottle Boxes

Hardwood; galvanized rods; lugs for stacking.

487 C 4430—Cap. doz. qts. Wt., 13 lbs..**$1.50**
487 C 4431—Capacity, 20 pints....**$1.52**
487 C 4432—Capacity, 20 half pints.**$1.80**

6 or more shipped from Factory in Sou. Wisc.

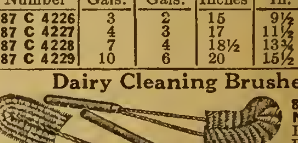
Dairy Aprons

Made of heavy yellow oiled duck with bib and neck strap.

Saturated and coated with four coats of bright yellow waterproof-ing oil and thoroughly dried. Double reinforcement of oiled canvas at the waist. Width, 36 inches. Length, 48 inches. Ship. wt., 1¾ lbs.

87 C 4404.$1.04

Dairy Cleaning Brushes

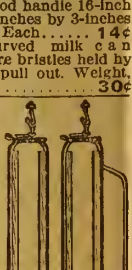


87 C 4360 No. 1—Dairy Brush Set consisting of one 14-inch wood handle brush, one 16-inch separator brush; and one 8½-inch test tube brush. Set of 3 brushes, shipping weight, 5 ounces...**21¢**

87 C 4372—No. 2—Round wood handle 16-inch milk bottle brush; brush part 5-inches by 3-inches wide. Shipping weight, 2 ounces. Each...... **14¢**

87 C 4378—No. 3—21-in. curved milk can brush; wood and wire handle; pure bristles held by twisted wire, guaranteed not to pull out. Weight, 8 ounces..............................**30¢**

Adjustable Steel Stanchions



Made of steel and malleable iron. Oil soaked maple wood linings. Adjustable to 6½, 7¼ or 8-inch opening. Chain hanging. Positive lock. Well enameled. Furnished with one eye-bolt, length, 6 inches, for fastening at top. Each stanchion has extension arm. Height, 44½ inches. End of chain to top of chain, 54½ inches.

187 C 4770—Stanchions without guard. Shipping weight, 20 pounds. Each.**$3.00**
187 C 4772—Stanchions with guard. Shipping weight, 22 pounds. Each..............................**$3.45**

Lots of 6 or more shipped direct from Factory in Central Wisconsin

287 C 4774—Stanchions without guard. **From Factory**..............................**$2.80**
287 C 4776—Stanchion with guard. **From Factory**..............................**$3.25**

Elgin Pattern Railroad Milk Cans

$3.40

One of the most popular cans sold. Heavy double-tinned steel plate; all seams heavily soldered. Body and bottom solidly riveted to bottom hoops. Special lock joint connecting breast with neck; cannot pull apart nor leak. When piled up, weight comes on neck joint; ordinary cans give out here first.

Breast and bottom fully rounded. Therefore easily cleaned; no open seams to hold milk or dirt. Handles strongly riveted. Superior quality.

Dairy Barn Equipment—

Get Our Free Farm Equipment Catalogue

Article Number	Capacity	Diameter	Height	Shipping Weight	Each
487 C 4300	5 gallons	10 inches	19¾ inches	12 pounds	$3.40
487 C 4301	8 gallons	12½ inches	21½ inches	18 pounds	4.40
187 C 4302	10 gallons	12½ inches	24½ inches	21 pounds	4.95

Wood Bar Stanchions

Oiled seasoned hard maple bars; pressed steel ends; malleable iron latch. Adjustable to 5, 6, 7, or 8-inch opening. Eye-bolt 6 inches long to attach stanchion at top. Short length of chain at bottom of stanchion gives much greater flexibility than pivot style. Fits framework in old barns easily. Height, 44½ inches. End of chain to top of stanchion, 54½ inches. Shipping weight, 15 pounds.

187 C 4778—Stanchion, without guard....**$2.30**
187 C 4780—Stanchion, with guard. Wt., 16 lbs **2.75**

Lots of 6 or more shipped direct from Factory in Central Wisconsin

287 C 4782—Without guard, from factory.**$2.10**
287 C 4784—With guard, from factory **2.55**

High Box Cart

$9.95

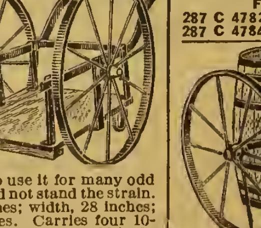
Illustration of Cart with Tip-Top Box

For hauling feed, milk cans, lumber and similar articles. Removable top section. Steel handlebars, firmly bolted to frame. Steel wheels: height, 36 inches; tires, 1¼ inches. Steel axle, diameter, ⅞ inches. Hardwood box, 9 inches deep, 21 inches wide, 36 inches long. Top box, 7½ inches.

289 C 6151—Cart complete with top box as illustrated. Ship. weigth, 112 pound.....**$9.95**
289 C 6152—Cart only, without top box. Shipping weight, 100 pounds **$8.50**
289 C 6154—Top Box only. Wt., 12 lbs **1.55**

Shipped from Factory in Springfield, Illinois

Pick-up Cart



A Handy Cart for all-around use. Just right for a sprayer cart, hauling milk cans, moving bee-hives, lumber and many other articles.

Heavy steel frame securely braced and bolted; the sturdy construction will enable you to use it for many odd jobs. Ordinary light cart would not stand the strain.

Length of platform, 32 inches; width, 28 inches; height from ground, 6½ inches. Carries four 10-gallon milk cans easily. Height of wheels, 36 inches; width of tires, 1¼ inches. Cranked steel axle, ⅞ inches in diameter. Rear end of platform has runners which will slide either way. Shipping weight, 91 pounds.

289 C 6156..............................**$7.75**

Shipped from Factory in Springfield, Illinois

Steel Frame Barrel Cart

$4.45

Especially adapted for use with barrel sprayers. Steel wheels, 36-inch diameter, 1¼-inch tires. Frame of the cart is made of 1¼-inch flat steel and fitted with hardwood handle. The axle castings and frame may be solidly bolted to the sides of barrel. (Barrel not included). Shipping weight, 58 pounds.

287 C 6150..............................**$4.45**

Shipped from Factory in Western Illinois

You will find a supply of handy Order Blanks in the back of this book

Poultry Supplies

Poultry Fountain Heater

$3.35

Tank holds 8 gallons of water, sufficient for flock of 75. Made entirely of heavy galvanized steel. Supplies water automatically to trough extending clear around the tank so a dozen chickens or more may drink at once. Heater lamp has large brass burner. Oil reservoir holds three pints. The bottom part is complete with galvanized bottom which prevents any possibility of floor catching fire from the lamp. By removing the bottom section the top part of fountain may be set directly on the ground, making an ideal waterer for the summer months. Shipping weight, 27 pounds.

187 C 3750 .... $3.35

Winter Fountain and Heater

Keeps the drinking water for your chickens at an even temperature during cold weather. **$1.20**

You increase egg yield by using this Fountain and Heater in the poultry house because it keeps the water at the right temperature day and night in the coldest weather.

Made of galvanized steel. Holds two gallons of water; sufficient for flock of 20. Supplied with heater lamp which requires about 1 quart of kerosene oil per week to operate. Shipping weight, 6 pounds.

487 C 3806 .... $1.20

Handy Poultry Marker

16¢ To punch hole in the web between the toes of poultry. Handy and effective. Bright finish. Shipping weight, 1 ounce.

87 C 3832 .... 16¢

Automatic Poultry Fountain

Galvanized steel. Keeps contents clean. Water may be warmed without danger of breaking fountain. To fill, stand on end. Lay flat while in use. Will feed automatically as chickens drink.

87 C 3786—1 gallon size. Shipping weight, 1 pound .... 60¢
87 C 3787—2 gal. size. Ship. wt., 2¼ lbs. 70¢
87 C 3788—3 gal. size. Ship. wt., 2¾ lbs. 80¢

59¢ Poultry Fountain

Galvanized steel with strong wire bail for carrying. Bent wire holders at top hold bail upright.

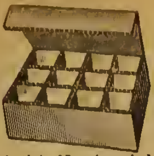
87 C 3794—2 quart size. Shipping weight, 1¾ pounds ... 59¢
87 C 3795—4-quart size. Shipping wt., 2¼ pounds ..... 65¢
87 C 3796—8-quart size. Shipping weight, 2¾ pounds ... 86¢
87 C 3797—12-quart size. Shipping weight 3½ pounds .... 95¢

10¢ Jar Fountain

Will fit any ordinary Mason jar, pint, quart, or half-gallon size. Galvanized steel pan. Jar easily removed for filling or cleaning. Prices do not include jar. Shipping weight, each, 4 ounces.

87 C 3822—Each .... $ .10
87 C 3823—Per dozen ... 1.18

Parcel Post Carrier



Made of corrugated fiber board. Walls are of double thickness. The cellular construction cushions the eggs. Made to comply with postal regulations. Four sizes with gummed address labels. Shipping weight, 3 dozen size, 1 pound.

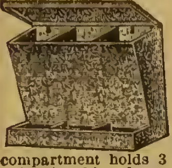
Article Number	1 doz. size	2 doz. size	3 doz. size	4 doz. size
87 C 3867 Per dozen boxes	85¢	$1.25	$1.65	$1.75

Beuoy Capon Set

Consists of humane spreader, knife, automatic remover. Combination Hook and Probe, and Hooks and Cords for fastening bird. Complete instructions for using, including book on "What's a Capon and Why." Shipping weight, 6 ounces.

87 C 3826—Complete Set $3.40
87 C 3827—Book only, postpaid .... .10

Poultry Grit Box



47¢ Saves Feed. Keeps Poultry Feed in Clean Sanitary Condition

A most economical way to feed grain and grit to poultry.

Galvanized steel. Each compartment holds 3 pints of feed.

Sloping hinged cover of hopper prevents chickens roosting on top. Nail holes in back to hang hopper against wall. The automatic supply construction practically eliminates waste and keeps the grit, oyster shell and charcoal clean and sanitary. Shipping weights, 2, 3, and 3½ pounds.

87 C 3782—2 compartments .... 47¢
87 C 3783—3 compartments .... 62¢
87 C 3784—4 compartments .... 76¢

Tip-Top Feed Hopper

$1.17 Made of galvanized steel. Has holes for hanging on wall. Especially adapted for dry mash.

Hopper holds 12 to 15 pounds of feed. Outside height, 18½ inches, length, 12 inches, depth, 6½ inches. Shipping weight, 7 pounds.

487 C 3778 .... $1.17

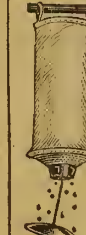
Hen House Feeder

Made of galvanized steel. Consists of a long pan, 5 inches wide, with a sliding cross bar top that may be taken off easily for filling or cleaning.

Length, 23½ inches. Shipping weight, 1¾ lbs.

87 C 3801 .... 63¢

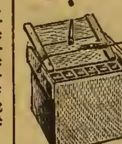
75¢ Automatic Feeder and Exerciser



More eggs mean more money. Keep your flocks busy. Will give chickens exercise in winter as well as in summer. All the grain is eaten, not a particle is wasted or left to attract vermin. The grain is eaten clean; it aids egg production; keeps your poultry in clean air—no stifling clouds of dust. Bag is made of strong muslin with drawing string; 8-qt. capacity. Shipped in neat box. Shipping weight, 1 pound.

487 C 3905 .... 75¢

Favorite Egg Carrier



Made of wood. Holds 12 dozen eggs; has 4 layers of 36 squares each. Cover has patent fastener, easily and quickly locked or unlocked. **Light and strong.** Shipping weight, 7¾ pounds.

487 C 3876 .... 75¢
87 C 3872—Extra fillers, per set, for 12 dozen eggs. Shipping weight, 8 ounces .... 15¢

Folding Egg Carrier

Holds 12 dozen eggs. Folds flat by removing top and bottom. Fillers also collapsible. Shipping weight, 6 pounds.

487 C 3870 .... 48¢
87 C 3872—Extra fillers, per set for 12 dozen eggs .. 15¢ Shipping weight, 8 ounces.

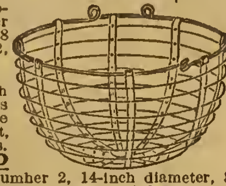
Aluminum Leg Bands

Pliable Aluminum. Light in weight and fit any size fowl.

Large raised figures. 10c per 100 extra for special numbering. Shipping weight, per hundred, 3 oz.

87 C 3836—For 25 bands. Numbers 1 to 25 .... 10¢
87 C 3837—For 50 bands. Numbers 1 to 50 .... 18¢
87 C 3838—For 100 bands. Numbers 1 to 100 .... 34¢

Wire Hens' Nests **$1.50**

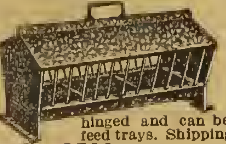


Heavy wire. Shipping weight, Number 1, per dozen about 8 pounds, Number 2, about 10 pounds.

487 C 3890—Number 1, 13-inch diameter, 6½ inches deep, copper wire mesh and 6 flat, coppered steel ribs. Per dozen ... $1.50

487 C 3892—Number 2, 14-inch diameter, 8 inches deep, coppered wire mesh and 8 flat, coppered steel ribs. Per dozen $2.25

Feed Trough



Galvanized steel, 23 inches long, 8 inches wide. Feeds 24 chickens at a time. Three-compartment feed box. Top and sides are hinged and can be turned back to fill feed trays. Shipping weight, 10 pounds.

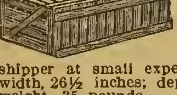
187 C 3780 .... $1.80

Thermodrink Fountain for Summer or Winter

The Thermodrink will supply cold or warm water all day for the poultry. No lamp necessary. Just fill it with warm or cold water according to the season, and the water will remain warm or cold for twelve hours. Made of heavy galvanized steel with bail for easy handling. Water is supplied automatically as the chickens drink. Shipping weight, 3, 8 and 10 pounds.

187 C 3807—Capacity, 2 gallons $2.05
187 C 3808—Capacity, 3 gallons 2.45
187 C 3809—Capacity, 5 gallons 2.75

Poultry Shipping Coop



Hinged door in top. Removable ends. Capacity, 100 pounds of chickens. Substantially constructed of hardwood. Shipped knocked down. May be returned to the shipper at small expense. Length, 43 inches; width, 26½ inches; depth, 12 inches. Shipping weight, 35 pounds.

187 C 3884 .... $1.80

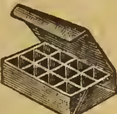
One-Way Shipping Coop

A strong, light, wire-bound crate. Can be set up in a couple of minutes. Size, 36 by 24 by 12 inches. Shipped knocked down. Shipping weight, 22 pounds.

187 C 3888—Single Coops .... 60¢
287 C 3889—Per bundle of 5 coops, shipped from Factory in Indiana $2.85

Climax Egg Carton

For Local Delivery



(Not suitable for Parcel Post.) Made of medium heavy stiff cardboard in one size only, to carry one dozen eggs. Shipping weight, per dozen cartons, 17 ounces.

87 C 3844—Per dozen cartons ...... $ .12
87 C 3846—Per 125 cartons 1.15

Oat Sprouter

$2.95

Oats soaked 24 hours, then placed in the pans and sprinkled a few times a day, will quickly sprout and supply greenfood for your chickens during the entire winter season. Consists of 8 galvanized pans, 11 by 14½ inches and 1½ inches in depth. The upper 7 pans have perforated bottoms to permit proper drainage while the bottom or drip pan is solid to catch all extra moisture.

Will grow sufficient oats at one time to care for 100 to 150 hens. Frame is made of galvanized steel, 40 inches high. Shipping weight, 20 pounds.

487 C 3755 .... $2.95

Mayflower Root Cutter

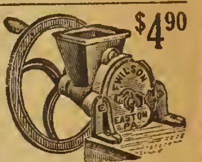
$11.90

Strong wood frame; large hopper; cutting disc on crank shaft; easily operated. Slices roots and vegetables in long thin slices and at same time separates clay and gravel from the feed by an iron grate at bottom of of feed chute. Juices and nutritious qualities are retained. Capacity by hand, 20 to 40 bushels per hour; by power, 40 to 70 bushels per hour. Requires one H. P. to run power machine.

287 C 3090—No. 1 Hand Cutter. Shipping weight, 125 pounds $11.90
287 C 3091—No. 2, same size with crank and pulley for power. Shipping weight, 140 pounds $13.50
287 C 3092—No. 3 Power Root Cutter with pulley and crank. Capacity, 150 to 200 bushels per hour. Shipping weight, 165 lbs $26.00

Shipped from Factory in Michigan.

Wilson Dry Bone and Shell Mill

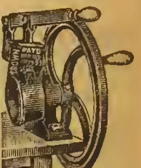


$4.90

For grinding dry bones, oyster and clam shells, grit, gravel, stones, old crockery, glass, charcoal, corn and all sorts of grain. Splendid in the house for grinding dry stale bread, crackers, roots, and barks. It will not grind green bones, or wet substances. Adjustable for fine or coarse grinding. Diameter of balance wheel, 20 inches. Shipping weight, 33 pounds.

187 C 2922 .... $4.90

Wilson Green Bone Cutter



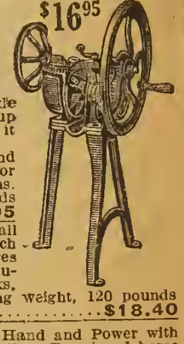
$10.00

For cutting green bone and meat scraps. Excellent for cutting vegetables.

It is fitted with two oil tempered steel knives which may be replaced at any time. Shipping weight, 35 pounds.

187 C 2926—With crank $9.50
187 C 2928—With balance wheel. Shipping weight, 55 pounds $10.00
87 C 2930—Extra knives. Shipping weight, ½ pound .... 85¢

Humphrey Green Bone Cutter



$16.95

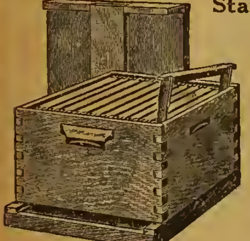
The Humphrey will cut all sorts of poultry food such as corn on the cob, charcoal, stale bread and vegetables. Cutters are made of the best tool steel. Cuts up the chip of bone so that it readily breaks apart.

287 C 3080—No. 1 Hand power. Popular size for flocks, 100 to 200 hens. Shipping weight, 125 pounds $16.95
287 C 3081—No. 2 Small power with 12 by 2½-inch pulley (no crank). Requires 1 horse power; 300 revolutions per minute. For flocks, 200 to 400 hens. Shipping weight, 120 pounds $18.40
287 C 3082—No. 2½ Hand and Power with crank and 12 by 2½-inch pulley. Requires 1-horse power. For flocks, 200 to 400 hens. Shipping weight, 135 pounds $20.00

Shipped from Factory in Northern Illinois.

Bee Supplies

Standard Hives



Standard white pine dovetailed hive with Hoffman brood frames. Covers are pine, excelsior lock-cap style, and hives have reversible double surface bottom boards. Either extracting supers or comb honey supers may be used. Supers should be ordered separately. Shipped knocked down.

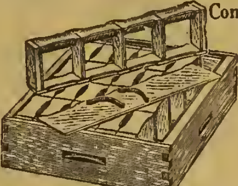
187 C 5681—Set of 5 one-story 8 frame standard hives including Excelsior cover, reversible bottom, 8 Hoffman frames, but no super, division board or foundation. Shipping weight, 130 pounds $10.95
187 C 5672—Single one-story 8-frame hive. Shipping weight, 26 pounds $2.45
187 C 5683—Set of 5 one-story 10-frame standard hives including Excelsior cover, reversible bottom, 10 Hoffman frames, but no super, division board or foundation. Shipping weight, 145 pounds $11.95
187 C 5674—Single one-story 10-frame hive. Shipping weight, 30 pounds $2.65

Honey Shipping Case

Very smoothly finished and fitted. Honey in attractive cases brings 1 to 2 cents per pound better prices than when shipped in rough, home made boxes. Leak-proof corrugated manila paper floor. Follower board keeps sections tight together. Front glass, 2 inches wide, fits in grooves. Each case takes 24 scalloped sections, size 4¼x4¼x1⅞ inches. Sold only in lots of ten complete cases. Shipped knocked down. Ship. wt., ten cases, 40 lbs.

187 C 5792—10 cases $4.85

Comb Honey Supers



Supplied without sections or foundation starters because of loss due to breakage in transit when sections and foundations are packed with super parts. Eight-frame super provides space for 24 4¼ by 4¼ by 1⅞-inch section honey boxes and the 10-frame for 28 section boxes.

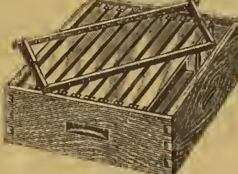
187 C 5700—Set of 5, 8-frame supers with flat tins, slotted section holders and separators, follower, supers springs; but no sections, covers, bottoms or foundation. Shipping weight, 30 pounds. Knocked down $3.40
187 C 5702—Set of 5, 10-frame supers with flat tins, slotted section holders and separators, follower, supers, springs; but no sections, covers, bottoms or foundation. Ship. wt., 35 lbs. Knocked down $3.85

Wax Comb Foundation

Light brood sheets must be wired. Thin sheets are used for starters in sections or brood-frames Ship. wts., 2 lbs. and 6¼ lbs.

87 C 5728—Medium brood. 7⅞ by 16¾ in. 7 to 8 sheets per lb 1 lb.. 72¢ 5 lbs .. $3.30
87 C 5730—Light, brood. 7⅞ by 16¾ in. 9 to 10 sheets per lb. 1 lb.. 74¢ 5 lbs.. $3.35
87 C 5732—Thin super 3⅞ by 15¾ in. 28 sheets per lb. 1 lb. 80¢ 5 lbs.. $3.64
87 C 5734—Extra thin. 3⅞ by 15¾ in. 32 sheets per lb. 1 lb.. 81¢ 5 lbs.. $3.74

Extracting Supers



To be used on our one-story standard hives. One or more supers may be added as the honey harvest increases. Standard shallow Hoffman frames 5⅜ inches deep are supplied. Sections cannot be used in Extracting Supers. Shipped knocked down.

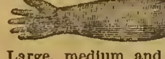
187 C 5684—Set of five, 8-frame Extracting Supers with shallow Hoffman frames. No cover, bottom, foundation or division boards. Shipping weight, per set, 37 pounds $3.70
187 C 5686—Set of five, 10-frame Extracting Supers with 10 shallow Hoffman frames. No covers, bottom, foundation or division boards. Shipping weight, per set, 42 pounds $4.05

Bee Veil

Net made of French Cotton Tulle with silk face piece. Veil kept from face by five spring steel bars which button to studs on veil neck band. Absolutely bee proof. Shipping weight, 5 ounces.

87 C 5716 .... $1.14

Bee Gloves



Heavy drill, practically stingproof. Rubber cord closes around elbows. Large, medium and small. **State size wanted.** Shipping weight, pair, 8 ounces.

87 C 5764—Per pair .... 84¢

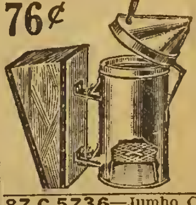
Section Honey Boxes

Made of clear basswood, smoothly polished and free from defects. Plain (no beeway) or scalloped styles.

Sections sold only in quantities listed. Packed in heavy weight corrugated paper insuring safe delivery. **Be sure to order the proper style and size for your hives.** Shipping weights: 100 sections, 8 pounds; 500 sections, 35 pounds.

487 C 5738—No. 1 quality. Scalloped. 4¼ by 4¼ by 1⅞ inches. Per 100 .... $1.35 Per 500 .... 6.00
487 C 5740—No. 1 quality. Plain. 4¼ by 4¼ by 1½ inches. Per 100 .. $1.28 Per 500 $5.60
487 C 5742—No. 1 quality. Plain. 4 by 5 by 1⅜ inches. Per 100 .. $1.30 Per 500 . $5.65

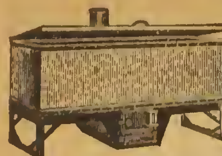
Bee Smokers



76¢ Made of heavy tin with leather bellows, metal bound edge and with patent draft. Perforated steel grate liner prevents burning barrel. New style flexible cover hinge permits tight fit on fire chamber.

87 C 5735—Standard Champion Smoker, diameter, 3¼ inches. Ship. wt., 2 lbs. $1.10
87 C 5736—Jumbo Champion Smoker, diam. 4 inches. Shipping weight, 2¼ pounds ... $1.35
87 C 5737—New Junior Smoker, diameter 2¾ inches. A good, serviceable smoker for a few colonies of bees. Ship. wt., 1¼ pounds ... 76¢

Lightning Feed Cooker



$22.95

Has many uses besides preparation of feed. Boils lime - sulphur spraying mixture, sorghum, sap or water for scalding. Boiler is made of 20-gauge galvanized steel reinforced at top and bottom. Cover is hinged, fits tightly.

Heavy cast iron grate and back wall. Fuel door and ash door Grates are 14 by 26 inches, suitable for coal, wood or cobs. One joint of 6-inch stovepipe with each cooker. All sizes 28 inches wide, 24 inches deep. Lengths vary with size. Shipping weight, 255 pounds.

287 C 3574 — Capacity, 6 barrels. Length, 5 feet. **$22.95**
287 C 3575 — Capacity, 7 barrels. Length, 6 feet. Shipping weight, 300 pounds...... **$28.00**
287 C 3576 — Capacity, 8 barrels. Length, 7 feet. Shipping weight, 325 pounds..... **$30.50**
287 C 3577 — Capacity, 9 barrels. Length, 8 feet. Shipping weight, 355 pounds..... **$34.00**

Shipped from Factory in Northern Indiana

Iowa Feed Cooker

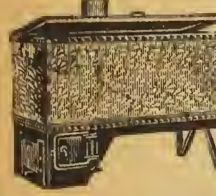
$9.25

Made in various sizes to burn wood or coal, or wood only. Boiler is heavy galvanized steel. Furnace is complete and consists of door frame grate, plate, hearth and legs. 100-gallon size has double hinge covers as shown in picture, 35 and 50-gallon sizes have single hinge covers and 20-gallon size has single cover to lift off.

Article Number	Cap. Gal.	Fuel	Lgth. In.	Wt., Lbs.	Price Each
287 C 3580	20	Wood only	24	60	$9.25
287 C 3581	35	Wood only	30	72	11.95
287 C 3582	50	Wood only	30	110	12.75
287 C 3583	100	Wood only	46	145	20.30
287 C 3584	35	Wood or coal	30	120	13.75
287 C 3585	50	Wood or coal	30	140	14.25
287 C 3586	100	Wood or coal	46	175	21.75

Shipped from Factory in Western Illinois

"Farmers' Choice" Feed Cooker



An excellent, economical heater for cooking large quantities of stock feed, scalding hogs, or other boiling.

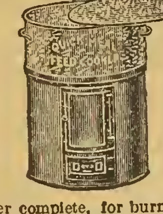
Boiler is made of 20-gauge galvanized steel. One 1-inch flange projects below bottom, so that the boiler sets securely on the furnace. The upper edge of the boiler is supported by 1-inch angle, making it very rigid and durable. Heavy cast iron grate and back wall. Burns wood, coal or cobs.

First 3 sizes have grate 12½ by 22 inches. Large size 12½ by 26 inches. Shipping weight, from 175 to 290 pounds.

Article Number	Lgth.	Width	Depth	Cap. Gals.	Price Each
287 C 3568	4 feet	24 in.	12 in.	60	$13.95
287 C 3569	4 feet	24 in.	18 in.	90	14.75
287 C 3570	5 feet	24 in.	18 in.	115	16.50
287 C 3571	6 feet	28 in.	18 in.	160	21.00

Shipped from Factory in Northern Indiana

Quick Meal Feed Cooker



Two separate compartments. Boiler is 20-gauge galvanized steel flanged around bottom so that it sets firmly on furnace. Furnace is black steel. Doors and frames of heavy cast iron. Burns coal or wood. Grate for coal furnished at small extra charge. Grate, 22 inches diameter, 1 inch thick. One joint of 6-inch stovepipe, elbow and damper included. Ship. wt., 100 lbs.

287 C 3562 — Cooker complete, for burning wood, with 25-gallon boiler............ **$9.35**
287 C 3563 — Cooker, complete, for burning wood, with 35-gallon boiler. Shipping weight, 110 pounds.................................... **$10.10**
287 C 3564 — Cooker complete, for burning wood, with 50-gallon boiler. Shipping weight, 125 pounds.................................... **$10.85**
287 C 3565 — Coal grate for each size. State size of cooker. Ship. wt., 25 lbs.. **$1.85**

Shipped from Factory in Northern Indiana

Improved Steam Feed Cooker

$33.95

Quick heater. Will raise steam in a few minutes. Burns coal, cobs, and up to 30-inch cord wood. 33-gallon cast iron reservoir. Grates for burning coal are extra. Furnished with or without pump for filling. Safety pop valve, 2-foot hose, gauge, cock, faucet for drawing off water and one set of pipes for barrel are included. Barrel not furnished. Steam tested to 20 pounds pressure. Requires 6-inch pipe. Shipping weight, 340 pounds.

287 C 3556 — Steam cooker without pump or coal fixtures.......................... **$33.95**
287 C 3557 — Pump for filling reservoir. Shipping weight, 15 pounds.............. **$7.60**
287 C 3558 — For heavy fire box and coal grate. Shipping weight, 150 lbs. extra... **$9.40**

Shipped from Factory in Central Iowa

Stock Feed Cookers

$7.95 for 15-gal. Size

For cooking feed for hogs, poultry, cattle, horses or sheep; also invaluable on farm for heating water, rendering lard, making soap, scalding hogs and innumerable other uses.

Experiments made by feeding a number of hogs with cooked feed and an equal number with uncooked feed, all from the same drove, and otherwise exactly the same conditions, except feeding, show from 15 to 25 per cent better returns for the cooked feed. It has also been established, where hogs regularly receive a portion of cooked feed, they are practically immune from cholora.

Progressive hog raisers not only cook winter feed, but find it profitable to feed warm, well-cooked, palatable feed to hogs in summer.

This cooker has a jacket made of one continuous sheet of cold-rolled steel, which leaves no joints to open up and take in air, and is supported at bottom with a heavy wrought iron band. The kettle is made of smooth cast iron and may be removed from the casing easily. The inside arrangement includes a cast iron flame deflector set so that the fire and smoke pass around the kettle before going into the smoke pipe, thus bringing the entire bottom of kettle in direct contact with the heat and fire. Coal grates, elbows and pipe are extra.

Hog Remedies

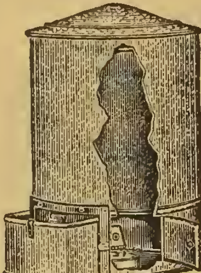
On page 387 of this catalogue we quote prices on various remedies for Hog worms, which are approved by the U.S. Department of Agriculture. These preparations will promote the rapid growth of hogs.

Article Number	Cap. Gal.	Average Height over All	Diameter Kettle, Inside Flange	Shipping Weight Complete	Price Each
287 C 3514	15 gal.	28 inches	20 inches	105 lbs.	$ 7.95
287 C 3515	20 gal.	28 inches	23 inches	130 lbs.	9.15
287 C 3516	30 gal.	30 inches	27 inches	175 lbs.	11.95
287 C 3517	45 gal.	30 inches	29 inches	205 lbs.	13.95
287 C 3518	55 gal.	30 inches	32 inches	265 lbs.	15.60
287 C 3519	65 gal.	30 inches	34 inches	290 lbs.	17.95
287 C 3520	75 gal.	34 inches	36 inches	335 lbs.	20.75

287 C 3524—Coal grates. State size of cooker or jacket. Shipping weight, from 30 to 70 pounds.................. **$3.50**
287 C 3526 — Pine cover; hinged. At factory. State size of cooker. Shipping weight, from 12 to 30 pounds **1.40**
287 C 3528—Elbow, one joint of 6-inch pipe and damper, Shipping weight, 3 pounds.................................. **.85**

Shipped from Factory in Michigan or Iowa

Hog Waterer and Heater



$18.75

Suitable for hogs, calves, sheep or other small stock. Water feeds into drinking pan automatically as needed. Pan is large enough to accommodate two animals at a time. Outer casing of tank is made of galvanized steel and lined with asbestos paper which helps to protect the water in tank from heat or cold. The drinking pan is made of cast iron, easily removed for cleaning. The water from tank is fed down through an opening at bottom of tank into the outside cast iron pan. The flow of water from tank to drinking pan is regulated by a vacuum. No valves required. Water pan is heated with an oil lamp with large fount (which is included with heater), holds oil enough to run 36 hours.

Height of tank, 37 inches. Diameter, 30 inches. Made in two sizes — 50 and 70-gallon capacity. Shipping weight, 154 and 175 pounds.

287 C 3322—50-gallon capacity.... **$18.75**
287 C 3323—70-gallon capacity..... **19.90**

Shipped from Factory in Western Illinois

Cafeteria Hog Feeder

Holds 18 Bushels of Shelled Corn

$9.85

Made with three compartments; a large bin for car, shelled corn or ground feed; two smaller bins, one for tankage, and the other for minerals or stock powders.

Feeder is made 6 feet in length, height, 42 inches, width, 40 inches. Built in sections of seasoned timber, painted with oil paint.

With a Cafeteria Hog Feeder and proper feed hogs will eat what they need without wasting.

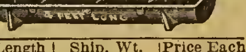
Shipped in knocked-down form, with necessary bolts, and can be set up in a few minutes. It is set on runners having an attachment to hitch a team. Shipping weight, 200 pounds.

287 C 3342 .... **$9.85**

Shipped from Factory in Wisconsin

Climax Cast Iron Hog Troughs

$1.75



Article Number	Length	Ship. Wt.	Price Each
187 C 3380	2 feet	25 pounds	$1.75
287 C 3381	4 feet	58 pounds	3.85
287 C 3382	6 feet	78 pounds	4.95

The 4 and 6 ft. troughs shipped from Factory in Southern Michigan or Western Illinois

Galvanized Steel Hog Troughs

Made of 20-Gauge Galvanized Steel

In sizes from 2 to 8 feet inclusive. The 2-foot size is especially desirable for breeding pens and farrowing houses. The 4, 6, and 8-foot sizes are popular in the hog yards. Where longer troughs than 6 and 8 feet are desired we recommend purchasing two, on account of the unwieldy large size. Have rounded bottoms for easy cleaning. Freezing does not affect them. Heavy iron cross bars one foot apart prevent the hogs shoving along in the trough.

Article Number	Height	Width	Length Feet	Shipping Weight	Price Each	Price Each in Lots of 10 or more direct from Factory in Western Illinois
487 C 3300	6 inches	9¾ inches	2 feet	6½ pounds	$ .88	$ .80
187 C 3301	6 inches	9¾ inches	4 feet	13 pounds	1.55	1.45
187 C 3302	6 inches	9¾ inches	6 feet	19 pounds	2.00	1.85
187 C 3303	6 inches	9¾ inches	8 feet	24 pounds	2.65	2.45

Hog Waterer, Automatic

$9.90

Supply tank is made of No. 20 gauge galvanized steel and may be removed from the sled for use as a storage barrel for oil or other fluids. Sled is constructed of heavy angle iron securely riveted together. When the supply tank is removed the pan may be used as a feeding trough. It has no valves, tubes or double tank arrangement to get out of order. It is a single tank with an outlet hole to allow the water to run into the trough as fast as the stock drink it and an inlet hole at the top to fill the tank.

Article Number	Capacity	Ship. Wt.	Price Each
287 C 3370	60 gal.	120 lbs.	$ 9.90
287 C 3371	90 gal.	132 lbs.	11.95
287 C 3372	120 gal.	165 lbs.	13.25

Shipped from Factory in Indiana

Tank Heaters

Self Sinking

$6.50

For heating outdoor stock watering tanks. The body of heater, including a draft tube, is solid cast iron in one piece. It will remain in any place in tank in which it is set. Ash pan is full size and has a carrying bail so that it may be lifted out. Grate, or firepot, also furnished with bail. Will burn any kind of fuel. Sets on ¾-inch legs to let water under heater. Has cast elbow at top to which smokestack is attached so that cover is moved independently of the smokestack. Each heater furnished complete with grate, ash tray, 2-foot stack, damper, hood and poker. Shipping weight, 135 pounds.

287 C 3590 — Diameter, 12 inches; height, 24 inches..................................... **$6.50**
287 C 3591 — Cast Tank-Heater. Diameter, 14 inches, height, 24 inches; Shipping weight, 165 pounds.................................. **$8.25**
287 C 3592 — Cast Tank-Heater. Diameter, 16 inches; height, 24 inches; Shipping weight, 195 pounds............................. **$10.50**

Shipped from Factory in Western Illinois

Submerging Tank Heater

$10.45

For heating outdoor stock watering tanks. Made of 14-gauge boiler plate. Heat box is 30 inches long, 12 inches wide and 8 inches high. Joined together at an angle of 45 degrees. Heater burns any kind of fuel—coal, wood, or cobs. Coal Heater, provided with Basket Grate. Will burn wood up to 30 inches long. Heater may be weighted or strapped down to tank, strap is included, also hook to pull out grate for cleaning when heater with coal grate is ordered. Shipping weight, about 75 pounds.

287 C 3595—Tank Heater without grate.................................. **$10.45**
287 C 3596 — Tank Heater with coal grate. Shipping weight, about 85 pounds...... **$11.80**

Shipped from Factory in Central Iowa

Valveless Hog Oiler

This Hog Oiler does the work the simple and easy way. Set one up in the hog lot — the hogs rub against it and the oil is applied exactly where it will do the most good.

Surplus oil is drained to recess on top of projecting leg which acts as rubbing bar for under part of hog's body.

Any kind of oil may be used. Our special medicated oil will get the quickest results, being especially made for this purpose.

Main standard is of steel, base and rubbing bars of cast iron. Galvanized steel oil tank. Lag screws included for fastening down. Height, 31 inches. Shipping weight, 35 pounds.

287 C 3320 .... **$3.95**

Shipped from Factory in Western Illinois

Medicated Hog Oil

For use with any hog oiler or rubbing post.

187 C 3332 — 1-gallon can, jacketed. Shipping weight, 10 pounds .... **66¢**
187 C 3334 — 5-gallon can, jacketed. Shipping weight, 50 pounds **$2.10**
287 C 3336 — 30-gallon wood barrel. Shipping weight, 350 pounds...................... **$10.00**

Wood barrels shipped from Factory near Chicago

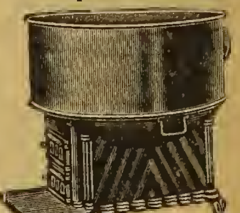
Stock Watering Fountain, Automatic

$2.00

Easily attached to barrel or tank and held in place by one bolt and strong lock nut on the pipe. The body is made of cast iron with double drinking chamber. The float ball is made of brass and will not rust. Float enclosed within covered chamber outside the barrel, open at the top, leaving it easy to get at, but well protected. Shipping weight, 14 pounds.

487 C 3306.............................. **$2.00**

Improved Furnace Caldron



$15.40

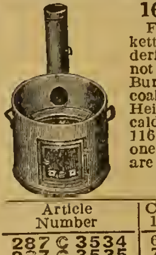
Cooks feed, renders lard, heats water.

Drum is made of boiler steel. Lower part and fire box of smooth cast iron. The construction is such that it allows the heat to instantly surround the drum making it a quick and economical heater and cooker. Equipped with large fire box and tight fitting doors. Inner container or kettle is made of heavy iron and may be removed for other uses when desired. Prices include furnace complete with kettle but no pipe (requires 6-inch pipe). Coal grate fixtures are extra.

Article Number	Capacity	Ship. Weight	Price Each
287 C 3500	15 gallons	130 lbs.	$15.40
287 C 3501	22 gallons	180 lbs.	17.95
287 C 3502	30 gallons	220 lbs.	20.50
287 C 3503	45 gallons	265 lbs.	22.65
287 C 3504	60 gallons	340 lbs.	29.50
Extra for Coal Grate Fixtures			
287 C 3506	15 gallons	35 pounds	$2.30
287 C 3507	22 gallons	40 pounds	2.75
287 C 3508	30 gallons	48 pounds	3.65
287 C 3509	45 gallons	60 pounds	4.25
287 C 3510	60 gallons	72 pounds	4.90

Shipped from Factory in Iowa or Michigan

16-Gauge Steel Jackets



For use in connection with iron kettles in cooking stock food, rendering lard, and soap. Prices do not include container or kettle. Burns wood and cobs, not made for coal. All made of 16-gauge steel. Height, 28 inches. Can fit all size caldron kettles from 64 inches to 116 inches in circumference. Elbow, one joint of 6-inch pipe with damper are extra.

Shipped from Factory in Michigan or Iowa

Article Number	Cir. In.	Kettle Cap. Gal.	Wt., Lbs.	Price Each
287 C 3534	66	15	55	$5.05
287 C 3535	76	20	70	5.50
287 C 3536	88	30	80	6.30
287 C 3537	96	45	90	7.60
287 C 3538	102	55	105	8.15
287 C 3539	109	65	110	8.75
287 C 3540	116	75	120	9.95

287 C 3542 — Elbow, one joint 6-inch pipe and damper. Ship. wt., 5 lbs..................... **85**

Caldron Kettle

Made of heavy, smooth, cast iron with wide flange rim. Extra heavy at bottom. For cooking feed, rendering lard and all boiling purposes.

Article Number	Capacity	Ship. Wt.	Price Each
287 C 3546	15 gallons	50 pounds	$3.60
287 C 3547	20 gallons	60 pounds	4.40
287 C 3548	30 gallons	95 pounds	6.20
287 C 3549	45 gallons	150 pounds	7.50
287 C 3550	55 gallons	116 pounds	8.85
287 C 3551	65 gallons	180 pounds	11.40
287 C 3552	75 gallons	215 pounds	12.80

Shipped from Factory in Michigan or Iowa

Holdfast Hog Catcher

$6.15

One Pull on the Lever Holds Any Size Hog

A strong, light and simple device for catching and holding hogs. Lever locks at any point desired. May readily be attached in barn door gateway, or corral, or attaching to post. Made of pine steel braced. Hand lever with ratchet to open or close stanchion. Made in one size only. Suitable for all size hogs. Frequently used for cattle dehorning. Shipping weight, 42 pounds.

287 C 3376 .... **$6.15**

Shipped from Factory in Central Illinois

Send for our Free Farm Equipment Catalogue. See Page 636

Steel Wagon Tanks

Made of U. S. Standard No. 20 gauge galvanized steel.

Must be set on planks from bolster to bolster. The cover is made watertight and provided with manhole, 14 inches in diameter; a raised flange, which prevents the water from splashing over the tank. A bulkhead or splash board, inside. Six-foot tanks have one side brace; 8-foot, two braces; and 10-foot, three side braces. One-inch exhaust bols at rear fitted with lock nuts and nipple for attaching hose or pipe.

All sizes of tanks are two feet high.

Article Number	Size Feet	Cap. Bbls.	Ship. Weight	Price Each
287 C 6694	2 x 4	3½	85 lbs.	$10.50
287 C 6695	2 x 6	5½	120 lbs.	12.80
287 C 6696	2 x 8	7½	155 lbs.	15.40
287 C 6697	2½x 8	9½	168 lbs.	17.95
287 C 6698	3 x 8	12	190 lbs.	19.75
287 C 6699	3 x10	14	236 lbs.	23.00

Shipped from Factory in Northern Indiana

Gasoline Wagon Tanks

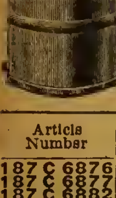
$11.75

No. 16-gauge galvanized steel. Seams all riveted with small, closely set rivets. Four-ply steel edges rolled and pressed. Has 2-inch lock nut with plug on top for filling. One-inch faucet at end for drawing off contents. Length of tanks, 6 feet, except largest size, which is 8 feet.

Article Number	Diam.	Capacity	Ship. Wt.	Price Each
287 C 6766	12 in.	42 gal.	50 lbs.	$11.75
287 C 6767	18 in.	72 gal.	75 lbs.	15.40
287 C 6768	24 in.	140 gal.	110 lbs.	20.00
287 C 6769	30 in.	220 gal.	150 lbs.	26.80
287 C 6770	30 in.	290 gal.	190 lbs.	32.00

Shipped from Factory in Northern Indiana

Steel Barrels



Two styles, black steel and galvanized steel.

A strongly made steel barrel that will withstand the roughest usage. Stands an interior air pressure of 10 pounds to square inch. Draw-off faucet with each barrel.

Ideal for storing oil. Also for transporting oil by wagon or truck. The shipping barrel has ¼-inch thick rolling ring reinforcements, making it best for railroad shipping. Complies with I. C. C. specifications.

Article Number	Style	Gauge	Cap. Gal.	Ship. Wt. Lb.	Each, Blk. steel
187 C 6876	Stor.	No.18	55	56	$4.05
187 C 6877	Ship.	No.16	55	62	4.75
187 C 6882	Stor.	No.20	15	14	2.30
187 C 6883	Ship.	No.20	30	29	3.00
					Galv.steel
187 C 6878	Stor.	No.18	55	56	4.90
187 C 6879	Ship.	No.16	55	62	5.80

Round Steel Stock Tanks

Made of No. 20 gauge galvanized steel; lock seams thoroughly riveted and soldered. Always shipped set up if not ordered knocked down. An excellent tank for general stock watering.

Article Number	Ht. Feet	Diam.	Cap. Bbls.	Ship. Wt. Lbs.	Price Each
287 C 6664	2	3 ft.	3½	59	$6.20
287 C 6666	2	4 ft.	6	89	7.30
287 C 6668	2½	4 ft.	7	96	8.35
287 C 6672	4	4 ft.	12	127	12.25
287 C 6674	2	5 ft.	9½	115	9.95
287 C 6676	2½	5 ft.	12	129	11.50
287 C 6680	4	5 ft.	19	160	15.85
287 C 6682	2	6 ft.	14	135	12.75
287 C 6684	2½	6 ft.	17	150	14.80
287 C 6686	3	6 ft.	20	176	15.90
287 C 6687	4	6 ft.	27	220	20.50
287 C 6688	5	6 ft.	34	260	25.50

For No. 18-gauge steel add 30% to above prices.
For No. 16-gauge steel add 60% to above prices.

Shipped from Factory in Northern Indiana

Round Steel Storage Tanks

Made of No. 20 gauge galvanized steel. Riveted and soldered seams. Always shipped knocked down.

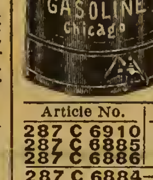
In shipping these tanks knocked down, they are all first put up in the shop and as much of the work finished as possible. All holes are punched. It is seldom that more than two joints need be put together at destination. Solder and rivets, also full instructions, accompany each tank, so that it is simple and easy to set them up. On the larger sizes we do not recommend less than No. 18 gauge. Pipe connections, covers and faucets, extra, same as for round end stock tanks. Prices for No. 20 gauge steel.

Article Number	Ht. Ft.	Diam.	Cap. Bbls.	Ship. Wt. Lbs.	Price Each
287 C 6758	6	6 ft.	41	270	$28.75
287 C 6759	8	6 ft.	54	360	35.75
287 C 6760	5	8 ft.	60	410	39.50
287 C 6761	6	8 ft.	72	475	43.75
287 C 6762	8	8 ft.	96	520	54.00
287 C 6763	8	10 ft.	150	700	71.00
287 C 6764	10	10 ft.	180	850	79.00

For No. 18 gauge steel instead of No. 20 gauge add 30%. For No. 16-gauge instead of No. 20 add. 60%

Shipped from Factory in Northern Indiana

Gasoline Storage Tank with Faucet



Made of galvanized iron, reinforced wth wood base under the metal bottom. A 4-inch screw filler cap and ground key brass lock faucet. Painted with heavy varnish paint and brushed, not dipped

Article No.	Capacity	Ship Wt.	Each
287 C 6910	30 gallons	42 pounds	$5.15
287 C 6885	60 gallons	52 pounds	6.25
287 C 6886	110 gallons	97 pounds	9.75

287 C 6884—Barrel pump. Steel tubing; brass valves. Fits 1½ or 2-inch bung. Shipping weight, 19 pounds....$4.95

Shipped from Factory near Chicago

Wood Stock Tanks and Storage Cisterns

Round tanks for stock watering purposes. Made of carefully selected lumber. We recommend cypress, as it is noted for its great durability. Tank is bound with two steel hoops with patent draw lugs. Always shipped knocked down. Easily set up. Shipping weights of stock tanks, 250 to 620 pounds. Shipping weights of storage cisterns (beginning with 287 C 6798) range from 400 to 1300 pounds.

Article Number	Ht. Ft.	Di. Feet	Cap. Bbls.	Each 1½-inch Cypress	Each 1½-inch Fir
287 C 6780	2	5	7	$14.95	$12.65
287 C 6782	2½	5	9	16.95	14.50
287 C 6784	2	6	10	18.75	16.00
287 C 6786	2½	6	13	21.90	17.50
287 C 6788	2¼	7	15	23.25	19.95
287 C 6790	2	7	20	26.50	21.90
287 C 6792	2	8	18	27.50	23.80
287 C 6794	2½	8	24	31.35	25.75
287 C 6796	2	10	30	38.95	33.50
287 C 6798	4	6	22	35.80	25.00
287 C 6800	5	6	29	38.00	29.80
287 C 6802	6	6	35	45.85	35.90
287 C 6804	6	8	51	63.25	49.50
287 C 6806	8	6	47	57.50	45.00
287 C 6808	8	8	86	84.60	66.50
287 C 6810	8	10	136	112.00	85.80

Shipped from Factory in Wisconsin

Threshermen's Wagon Tanks

$24.75

Made of No. 20-Gauge Galvanized Steel

For transportation of water, oil and other liquids. It is carried on a wood frame with cross sills notched to fit bolster. Iron braces extend up sides from cross sills. Has galvanized flange extending 6 inches high around top of tank, making it possible to carry buckets, tools, etc., without danger of them falling off. Is fitted with covered manhole near center. Front of tank and frame are so constructed as to form driver's seat with foot rest. When ordering be sure to give width of bolster between standards. Capacity, 9½, 13 and 15 barrels. Width of tanks, 3 feet.

Art. No.	Depth	Length	Ship. wt.	Each
287 C 6700	24 in.	8 ft.	310 lbs.	$24.75
287 C 6701	24 in.	10 ft.	370 lbs.	27.95
287 C 6702	28 in.	10 ft.	410 lbs.	29.50

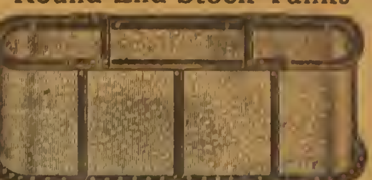
Shipped from Factory in Northern Indiana

Covers and Connections for Tanks

287 C 6820—With ¾ or 1¼-inch pipe connections. State size. Extra....40¢
287 C 6822—For ½ or ¾-inch faucet. State size. Extra....$1.40
287 C 6824—For 1-inch faucet. Extra 2.25
287 C 6826—Hinged Cover. Extra per square foot....25¢

Shipped from Factory in Northern Indiana

Round End Stock Tanks



$5.45 to $27.50

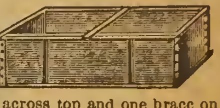
2x2x4 Feet — 2x4x16 Feet

Made of U. S. Standard No. 20 gauge steel. Shipped set up. Number of top and side braces depends on size of tank.

Article Number	Ht. Ft.	Size Feet	Cap. Bbl.	Ship. Wt. Lbs.	Price Each
287 C 6630	2	2 by 4	3	65	$5.45
287 C 6632	2	2 by 6	4½	90	7.75
287 C 3634	2	2 by 8	6¾	120	9.75
287 C 6636	2½	2 by 8	8	147	11.25
287 C 6638	2	2½ by 8	8	147	10.75
287 C 6640	2	3 by 8	9½	150	12.40
287 C 6642	2	4 by 8	12¾	155	14.25
287 C 6644	2½	4 by 8	15¾	174	16.60
287 C 6646	2	3 by10	12¼	165	14.30
287 C 6648	2½	3 by10	15½	190	17.20
287 C 6650	2	4 by10	16¼	205	17.00
287 C 6654	2	4 by16	27¼	320	27.50

Shipped from Factory in Northern Indiana

Square End Tanks

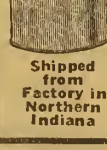


Made of No. 20 gauge steel. All tanks 6 feet long have one-angle brace across top and one brace on each side; 8-foot tanks have one top brace and two angle braces on each side; 10-foot tanks have two top braces and three braces on each side.

Article No.	Size Feet	Cap. Bbls.	Ship. Wt. Lbs.	Price Each
287 C 6712	2 x2 x 4	3¾	78	$6.50
287 C 6713	2 x2 x 6	5¾	108	8.15
287 C 6714	2 x2 x 8	7½	140	12.00
287 C 6715	2½x2 x 8	9½	146	13.45
287 C 6716	2½x2½x 8	12	167	15.70
287 C 6717	3 x2 x 8	11½	154	14.25
287 C 6718	4 x2 x 8	15	183	17.30
287 C 6719	3 x2 x10	14	195	16.95
287 C 6720	4 x2 x10	19	225	19.75

Shipped from Factory in Northern Indiana

Galvanized House Tanks



For holding water, mixing stock food or a swill and garbage can or for any other purpose for which a waterproof tank is needed.

Made of No. 20 gauge, galvanized steel. Covers included.

Shipped from Factory in Northern Indiana

Art. No.	Cap.	Ship. Wt.	Each
287 C 6742	27 gal.	20 lbs.	$3.35
287 C 6743	32 gal.	22 lbs.	3.55
287 C 6744	47 gal.	26 lbs.	3.75
287 C 6745	73 gal.	34 lbs.	4.65
287 C 6746	92 gal.	40 lbs.	5.25
287 C 6747	110 gal.	50 lbs.	5.90
287 C 6748	158 gal.	60 lbs.	7.75
287 C 6749	211 gal.	80 lbs.	10.25

Sprayers, Nozzles and Accessories

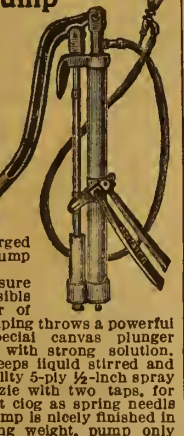
Whitewash Sprayer

Sprayer and force pump are made of galvanized iron. Top and bottom are made of brass, painted. Equipped with 3 feet of best hose, one foot brass extension rod and a brass nozzle, adjustable for two different sizes of sprays. It has ball valves and steel foot rest. The pump plunger is easily removed and easy to operate due to double action. It is made with large air chamber. The pressure being held in the air chamber on the nozzle enables the operator to throw a continuous spray, which is not affected by the movement of the plunger. This pump is especially designed for spraying whitewash but may be used for any kind of spraying. Shipping weight, 3½ pounds.

87 C 6012....$1.95

Barrel Spray Pump

$12.60



For spraying orchards; trees and shrubbery or for cold water painting and whitewashing.

Quickly attached to any water-tight barrel. Simply set in barrel and bolt casting to barrel staves. All working parts, cylinder, ball valves, valve seats connections and nozzle are brass and are submerged in the liquid so that this pump requires no priming.

A constant, high - pressure of 125 pounds is made possible by the large air chamber of this model. Slow, easy pumping throws a powerful mist-like spray. The special canvas plunger packing will not wear out with strong solution. The mechanical agitator keeps liquid stirred and prevents settling. Best quality 5-ply ½-inch spray hose. Vermorel brass nozzle with two taps, for fine or coarse spray cannot clog as spring needle keeps nozzle clean. The pump is nicely finished in aluminum bronze. Shipping weight, pump only 41 pounds.

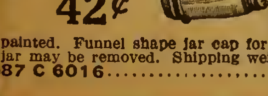
187 C 6026—Pump only, without hose or nozzle....$9.95

187 C 6028—Complete with 5-foot hose and nozzle. Shipping weight, 48 pounds....$12.60

187 C 6030—Complete with 15-foot hose and nozzle. Shipping weight, 48 pounds....$13.95

87 C 6034—Extra 5-foot hose with nozzle and connection. Shipping weight, 8 pounds $2.75

Glass Jar Sprayer



42¢

Glass jar holds one quart and may be refilled without detaching. Pump barrel is 18 inches long. Heavy tin, painted. Funnel shape jar cap for easy filling or jar may be removed. Shipping weight, 2 pounds.

87 C 6016....42¢

No. 22 Banner Compressed $4.50 Air Sprayer

For all spraying purposes—spraying vegetables or plants, shrubbery, flower beds, fruit trees and cattle; whitewashing and disinfecting poultry houses, stables, cellars; washing windows, automobiles buggies and the like. It will spray anything in liquid form and operates so easily a boy can use it. Total capacity, 3¼ gallons.

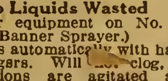
The tank is made of heavy galvanized steel with double seamed head; seams are heavily riveted. The pump is seamless brass tubing and is provided with a brass casting with cut threads for screwing into the tank. Nothing to corrode, rust or wear out. Adjustable shoulder strap with snap ends included for carrying. A 2-foot hose, detachable for cleaning, is also supplied. Brass nozzle has hand lever; non-cloggable and automatic, throws a fine mist or coarse spray a long distance. No waste of liquid. (This nozzle 87 C 6040, is described below). Full directions and spraying calender with each sprayer. Shipping weight, 10 pounds.

487 C 6002....$4.50

87 C 6094—Brass Extension Pipe, 3 feet long, ¼-inch diameter, with coupling. Shipping weight, 8 ounces....62¢

Lever Nozzle

$1.35

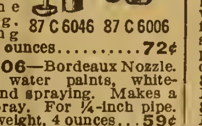


No Liquids Wasted

(Regular equipment on No. 22 Banner Sprayer.)

Works automatically with hand and fingers. Will not clog, as obstructions are agitated and forced out simply by pressing lever. Made of brass to fit ½-inch hose. Shipping weight 12 ounces.

87 C 6040....$1.35



87 C 6046—Spray Nozzle. Brass. Threaded for ¼-inch pipe. Two nozzle caps, for coarse and fine spraying. Shipping weight, 4 ounces....72¢

87 C 6006—Bordeaux Nozzle. For cold water paints, whitewashing and spraying. Makes a flat fan spray. For ¼-inch pipe. Shipping weight, 4 ounces...59¢

Fly Spray

A liquid preparation for protecting stock from the torture of flies. Spraying lightly twice a day helps to keep flies off both horses and cows. Can be used with any sprayer.

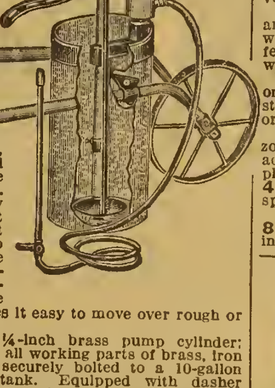
187 C 6100—One - gallon jacketed can. Shipping weight, 10 pounds. Per can....75¢

187 C 6102 — 5-gallon jacketed can. Shipping weight, 50 pounds. Per can....$2.45

Wheelbarrow Sprayer

Width only 15 inches at widest point. It will pass through the narrow passageways of greenhouses.

$16.90

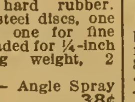


Especially desirable for orchard, potato or field crop spraying, whitewashing and disinfecting. Fine for florists' use. Machine is only 15 inches wide at the widest point which allows it to pass through the narrow passageways of greenhouses. The large strong wheel makes it easy to move over rough or soft ground.

Construction—1¼-inch brass pump cylinder; bronze ball valves; all working parts of brass, iron air chamber—all securely bolted to a 10-gallon galvanized steel tank. Equipped with dasher agitator. Supplied complete, as illustrated, with 8 feet of ⅜-inch discharge hose, and couplings; 3 feet of ⅛-inch iron extension pipe and nozzle for fine or coarse spraying. Shipping weight, 60 pounds.

187 C 6062....$16.90

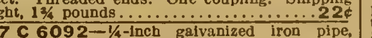
Spray Nozzles



The angle curve reaches difficult places. Have hard rubber. whirl and two steel discs, one for coarse and one for fine spraying. Threaded for ¼-inch pipe. Shipping weight, 2 ounces.

87 C 6063 — Angle Spray Nozzle....38¢
87 C 6064 — Straight Nozzle....36¢

Pipe Extension for High Tree Spraying



487 C 6090—¼-inch black iron pipe, length, 4 feet. Threaded ends. One coupling. Shipping weight, 1¾ pounds....22¢

487 C 6092—¼-inch galvanized iron pipe, length, 4 feet. Threaded ends. One coupling. Shipping weight, 1¾ pounds.... 33¢

87 C 6094—Brass rod extension. ¼-inch. Length, 3 ft. With coupling. Ship. wt., 4 oz.. 62¢

87 C 6096—Shut-off or Stop Cocks. Brass. Threaded ends to receive ¼-inch pipe. Shipping weight, 5 ounces....58¢

Brass Bucket Sprayer

Fits any Pail or Bucket

$2.25

For all kinds of spraying or for fire fighting. No matter how little spraying you have to do, the Brass Bucket Sprayer will be found most convenient and efficient.

For spraying trees, shrubbery and vegetables as well as for whitewashing, spraying disinfectants, washing automobiles, wagons and windows.

Double-acting, that is, it works on both the up and the down stroke, giving a continuous spray or stream.

Supplied with fire nozzle. Will throw a horizontal stream 40 feet. Solid brass ball valve; adjustable foot brackets; brass cylinder and plunger, 3½-foot hose.

487 C 6000—Combination fine and coarse spray nozzles. Shipping weight, 5½ pounds....$2.25

87 C 6006—Bordeaux Nozzle for whitewashing. Shipping weight, 4 ounces....59¢

Combination Sprayer

$5.30

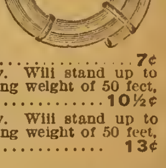
A good Combination Sprayer and whitewasher built for hard service. Fits any pail or bucket and may be attached to barrel by bolting to the staves through casting provided for this purpose. Adapted to all kinds of garden, field and orchard spraying, whitewashing and spraying disinfectants.

Made almost entirely of brass. Easy to operate. Produces a steady, unbroken flow. Will throw a solid stream 40 feet. May be regulated from the finest to a very coarse spray.

Malleable iron stirrup for use with bucket is included. Also connecting plate for use on barrel. Has 3 feet of ½-inch hose with brass hose clamps and a combination nozzle for fine mist spraying or stream. Shipping weight, 8¼ pounds.

487 C 6004....$5.30

Spray Hose



For many spraying purposes. Made especially to withstand action of poisonous solutions. Any length desired.

87 C 6104—⅜-inch, 3-ply hose. Will stand up to 100 pounds pressure. Shipping weight of 50 feet, 6 pounds. Per foot....7¢

87 C 6105—½-inch, 5-ply. Will stand up to 130 pounds pressure. Shipping weight of 50 feet, 9½ pounds. Per foot....10½¢

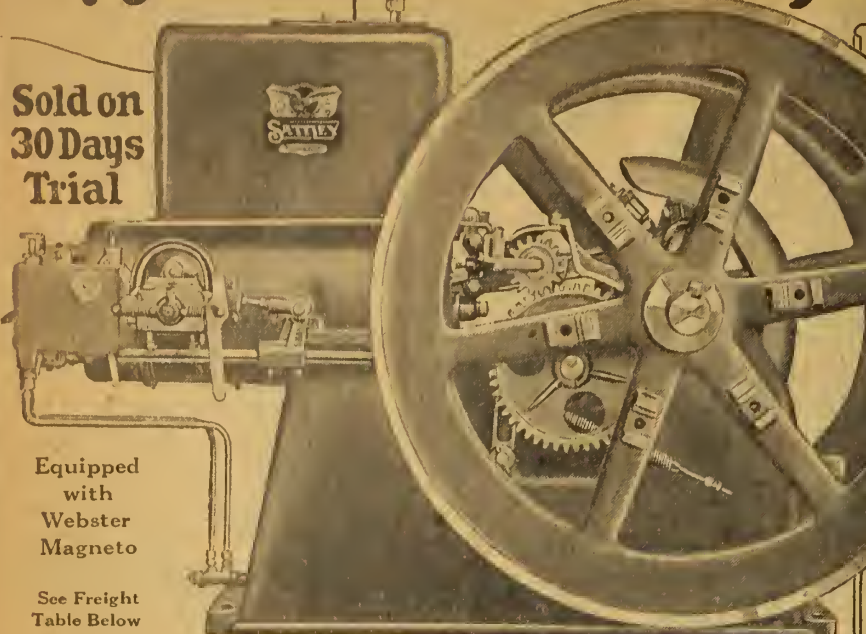
87 C 6106—½-inch, 6-ply. Will stand up to 250 pounds pressure. Shipping weight of 50 feet, 11½ pounds. Per foot.... 13¢

Spray for bigger crops. Spray Materials on Page 387

Sattley Kerosene Engine

$79.50 3-Horse Power

Sold on 30 Days Trial



Equipped with Webster Magneto

See Freight Table Below

Saves Labor — Saves Time — Saves Money

Why spend needless hours of tiresome labor, when a Sattley Kerosene Engine will do the work for you and your family and do it at small expense? Easy to start—even in cold weather—runs steady as a clock—and delivers smooth, even power. Attach it to your pump, your churn, your grinder, your washer, your sheller your saw outfit or your ensilage cutter—and the Sattley always will be on the job ready to deliver power day after day, and year after year.

Its tireless energy does odd jobs quickly and does them with economy. It will operate the churn, the washer and the pump while you are doing the more important and money-producing tasks. It gives you and your family more time to plan and more time for leisure.

Remember, too, the Sattley Engine was designed and built to use low-cost fuel. It is a real Oil Engine. It operates just as successfully on Kerosene as on Gasoline—and at a big saving in fuel cost. For example, the 5 H.P. Sattley will deliver its full rated horsepower for 10 hours on about 6½ gallons of Kerosene, depending on the grade of Kerosene and the atmospheric conditions. Based on an average cost of 15¢ a gallon this amounts to only 98¢. Think of it, 5 horsepower for 10 hours, for only 98¢.

Perhaps you wonder how we can sell the Sattley—a high grade Kerosene Engine—at the low prices quoted here. It is because we own the Sattley Engine plant; because we have spent years in developing the most efficient methods of manufacture, and because we share with you the economy of factory-to-you selling methods. Our prices include nothing but the factory cost and one small profit. And your satisfaction is guaranteed.

We stand back of the Sattley in every way and carry a full stock of renewal parts. The few simple instructions—all that are needed—and a complete price list of renewal parts are shipped with each engine.

Let us help you in selecting the engine best suited to your needs. Tell us what work you wish done and we will recommend the type of engine that will do the work satisfactorily and at the lowest cost.

Order The Way You Like Best

The following ways of ordering are for your convenience.

Full purchase price with your order.

Nearly all our customers send cash with their order, so if you wish to order on this plan, send a Postoffice or Express Money Order, Bank Draft or Personal Check, for the engine you desire and we will ship it at once.

When it arrives at your station you then pay the freight charges. Take the engine home and use it for 30 days before deciding to keep it. Then should you decide not to keep the engine, write us for return shipping directions. We will gladly return your money and all the freight charges you have paid.

You May Pay After 30 Days' Free Trial

Should you want to take advantage of our liberal 30-Day Free Trial to see and try the Sattley before paying for it, just give us the name of your home banker or ask him to give you a letter saying that he knows you are reliable, which he unquestionably will gladly do. Then send this letter with your order. After you receive the engine, try it for 30 days and after assuring yourself that the Sattley is perfectly satisfactory, send us payment in full at the end of your 30-day trial.

3 H. P. Sattley Kerosene Engine

Three Actual Horse Power at normal speed. Bore, 4¼ inches. Stroke, 6 inches. Webster Magneto. Throttling Governor. Flywheels: diameter, 22 inches; weight, each, 70 pounds. Normal Speed, 550 revolutions per minute. Pulley, 6 by 4 inches. Crankshaft diameter, 1½ inches. One-cylinder. Shipping weight, 515 pounds.

3 Horse Power

289 C 5161.....$79.50

5 H. P. Sattley Kerosene Engine

Five Actual Horsepower at normal speed. Bore, 5¼ inches. Stroke, 7 inches. Webster Magneto. Throttling Governor. Flywheels: diameter, 28 inches; weight, each, 150 pounds. Normal Speed, 475 revolutions per minute. Pulley, 12 by 6 inches. Crankshaft, diameter, 2 inches. One-cylinder. Shipping weight, 935 pounds.

5 Horse Power

289 C 5165....$112.00

7 H. P. Sattley Kerosene Engine

Seven Actual Horse Power at normal speed. Bore, 6 inches. Stroke, 8½ inches. Webster Magneto. Throttling Governor. Flywheels: diameter, 34 inches; weight, each, 230 pounds. Normal Speed, 400 revolutions per minute. Pulley, 16 by 6 inches. Crankshaft, diameter, 2⅛ inches. One-cylinder. Shipping weight, 1320 pounds.

7 Horse Power

289 C 5167....$156.50

9 H. P. Sattley Kerosene Engine

Nine Actual Horse Power at normal speed. Bore, 6½ inches. Stroke, 12 inches. Webster Magneto. Throttling Governor. Flywheels: diameter, 38 inches; weight, each, 325 pounds. Normal Speed, 340 revolutions per minute. Pulley, 20 by 8 inches. Crankshaft, diameter, 2¾ inches. One-cylinder. Shipping weight, 2025 pounds.

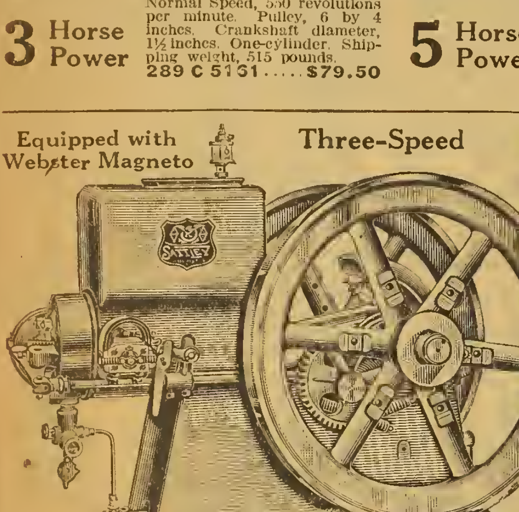
9 Horse Power

289 C 5168....$199.75

Shipped from Factory in Springfield, Illinois

Equipped with Webster Magneto

Three-Speed Sattley Gasoline Engine



$42.95

1½-Horse Power

THE patented Three-Speed Regulator is the simplest and most perfect speed changing device on the market. It is a marked improvement over the common type of governor which can work accurately only at one speed. It is very simple and effective. Simply push the hand wheel in or pull it out. While the engine is running you can thus change the speed to meet the requirements of the job. By simply changing the speed a cream separator can thus be belted to an engine that has been running a grindstone. And it is all done without the use of extra pulleys, gears, shafting or other equipment. Sattley Gasoline Engines are constructed the same as our kerosene engines except for the kerosene burning features.

1½ H. P. Gasoline Engine

One and one half Actual Horse Power at normal speed. Bore, 3½ inches. Stroke, 4 inches. Webster Magneto. Normal Speed, 550 revolutions per minute. Pulley, diameter, 4 inches; width, 4 inches. Crankshaft diameter, 1¼ inches. Flywheels: diameter, 15½ inches; weight, each, 35 pounds. Three-Speed Regulator. One-cylinder. Shipping weight, 245 pounds.

1½ Horse Power

289 C 5042 $42.95

3 H. P. Gasoline Engine

Three Actual Horse Power at normal speed. Bore, 4¼ inches. Stroke, 6 inches. Webster Magneto. Normal Speed, 475 revolutions per minute. Pulley: diameter, 8 inches; width, 4 inches. Crankshaft diameter, 1½ inches. Flywheels: diameter, 22 inches; weight, each, 70 pounds. Three-Speed Regulator. One-cylinder. Shipping weight, 470 pounds.

3 Horse Power

289 C 5052...$74.50

5 H. P. Gasoline Engine

Five Actual Horse Power at normal speed. Bore, 5¼ inches. Stroke, 7 inches. Webster Magneto. Normal Speed, 425 revolutions per minute. Pulley: diameter, 12 inches; width, 6 inches. Crankshaft diameter, 2 inches. Flywheels: diameter, 28 inches; weight, each, 150 pounds. Three-Speed Regulator. One-cylinder. Shipping weight, 925 pounds.

5 Horse Power

289 C 5062..$102.00

7 H. P. Gasoline Engine

Seven Actual Horse Power at normal speed. Bore, 6 inches. Stroke, 8½ inches. Webster Magneto. Normal speed, 375 revolutions per minute. Pulley: diameter, 16 inches; width, 6 inches. Crankshaft diameter, 2⅛ inches. Flywheels: diameter, 34 inches; weight, each, 230 pounds. Three-Speed Regulator. One-cylinder. Shipping weight, 1,300 lbs.

7 Horse Power

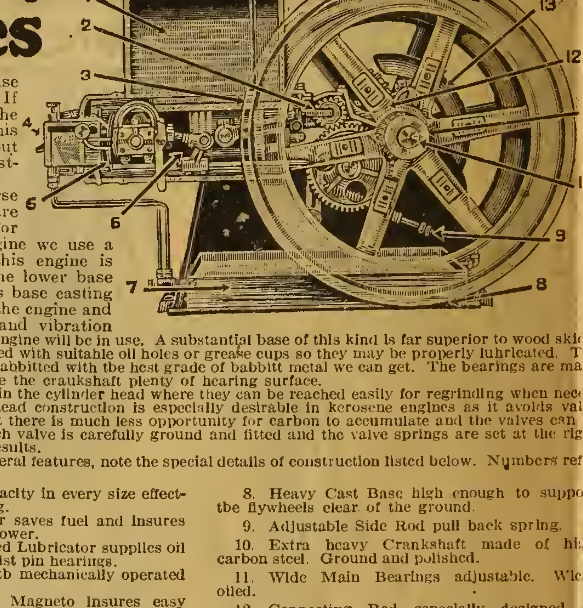
289 C 5066..$141.50

Shipped from Factory in Springfield, Illinois

A Few Words About Freight

Remember—no matter where you buy your engine, separator or other farm equipment, you pay the cost of transportation to your town. If you buy locally, the freight charges are included in the price you pay; if you buy from us, you pay the freight charges separately. See pages 320-321 for general information: consult your local freight agent for the exact charges—or write to us. We shall be glad to tell you exactly what your engine will cost you, delivered to your town. You will then know how much you save.

Sattley Features



The cylinder and base are made separate. If you wish to replace the cylinder at any time, this can be done without changing the base casting.

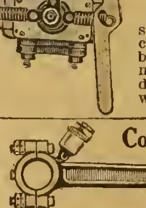
Three and 5-Horse Power engine bases are made in one piece. For the 7-Horse Power engine we use a double base. When this engine is mounted on a truck the lower base may be removed. This base casting is designed to support the engine and withstand the weight and vibration through all the years the engine will be in use. A substantial base of this kind is far superior to wood skid

All bearings are provided with suitable oil holes or grease cups so they may be properly lubricated. T crankshaft bearings are babbitted with the best grade of babbitt metal we can get. The bearings are ma of sufficient length to give the crankshaft plenty of bearing surface.

The valves are located in the cylinder head where they can be reached easily for regrinding when nece sary. This valve-in-the-head construction is especially desirable in kerosene engines as it avoids val pockets. This means that there is much less opportunity for carbon to accumulate and the valves can more readily cooled. Each valve is carefully ground and fitted and the valve springs are set at the rig tension to give the best results.

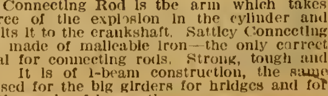
In addition to these general features, note the special details of construction listed below. Numbers ref to the diagram above.

1. Ample Cooling Capacity in every size effectively prevents overheating.
2. Throttling Governor saves fuel and insures steady, even delivery of power.
3. Automatic Sight Feed Lubricator supplies oil to piston, cylinder and wrist pin bearings.
4. Kerosene Mixer with mechanically operated fuel pump.
5. Webster Oscillator Magneto insures easy starting. No batteries, wiring or short circuits.
6. Large Cylinder Bore and Stroke for every size. Ample power at moderate speeds. Smooth finish insures long life and smooth running.
7. Fuel Tanks Inside Base, Safety First. Completely protected from fire or any damage by the heavy iron base.
8. Heavy Cast Base high enough to suppo the flywheels clear of the ground.
9. Adjustable Side Rod pull back spring.
10. Extra heavy Crankshaft made of hi carbon steel. Ground and polished.
11. Wide Main Bearings adjustable. Wic oiled.
12. Connecting Rod especially designed "I" beam section. Wide bearings to take up we
13. Heavy, Strong Cast Shield, not thin she steel as is sometimes used by engine manufacture
14. Large Heavy Flywheels of proper weig and balance, insure smooth steady running witho vibration.



Webster Magneto

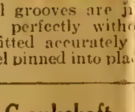
Reliable Ignition — a hot spark always ready, hot or cold weather. Economical because no fuel wasted in misfiring. Water, oil and dustproof. With proper care, will last many years.



Connecting Rod

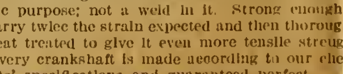
The Connecting Rod is the arm which takes the force of the explosion in the cylinder and transmits it to the crankshaft. Sattley Connecting Rod is made of malleable iron—the only correct material for connecting rods. Strong, tough and lasting. It is of I-beam construction, the same form used for the big girders for bridges and for connecting rods of locomotives.

Semi-Steel Pistons



Correctly designed, semi-steel, extra long, ground to an exact fit so as to cause as little friction as possible and still hold compression. Oil grooves are ju the right size to lubricate perfectly witho waste. Piston rings are fitted accurately piston grooves, and are dowel pinned into pla

Carbon Steel Crankshaft



Forged from a solid piece of close-grained, hi tensile strength steel—the best known metal f the purpose; not a weld in it. Strong enough carry twice the strain expected and then thoroug heat treated to give it even more tensile streng Every crankshaft is made according to our che ists' specifications and guaranteed perfect.

For more complete details of Engines get the Farm Equipment Book, see Page 636

Saw Your Own Timber — Keeps the Boys Busy

Let them Earn extra Money during Slack Season

$187.00 With Saw Frame

$149.50 Without Saw Frame,

"It Pays for Itself"

One of these Power Saw Rig Outfits will pay for itself many times over by helping maintain a steady income. You can use the engine for odd jobs the whole year round—hitch it to your grinder, separator, feed cutter or churn. There is enough power to operate several machines at once if desired. It will be on the job 24 hours a day, delivering full power at a small expense to you. The 5 and 7 H.P. sizes are considered most satisfactory for all round work.

Engine Specifications

Power — Guaranteed full horse power at normal speed.

Oiling — Automatic sight feed lubricator supplies oil to piston, cylinder and wrist-pin bearing.

Cooling — Water cooled, ample cooling capacity in every size.

Ignition — Webster oscillating magneto — no wiring or short circuits.

Bore—5 H. P., 5¼ inches; 7 H. P., 6 inches.

Stroke—5 H. P., 7 inches; 7 H. P., 8½ inches.

Type—1-cylinder. Kerosene, with throttling governor. Gasoline—three speed.

See opposite page for description of the Sattley Engine. It is simple, well made and easy to operate, in either cold or warm weather. The saw frame is of the tilting table type and is removable; has an all steel frame and braces; 60-pound balance wheel; shaft for saws with 1⅜-inch arbor hole. Standard steel cordwood cutoff saw supplied, filed and set ready for use: 26 inches in diameter with 5 H. P. outfits and 30 inches with 7 H. P. outfits.

The truck has heavy 5-inch channel steel beams 8 feet long and 1⅝ by 62-inch round axles of solid steel further strengthened by 3-inch "I" beams; braces to rear axle and to fifth wheel; front wheels, 24-inch with 4-inch grooved tires; rear wheels, 32-inch. Complete outfits include truck, engine with Webster magneto, tool and seat box, standard 2-horse pole; saw frame, belt and saw with saw rigs. (Neckyoke, singletree and doubletrees not included.)

Sattley's Best

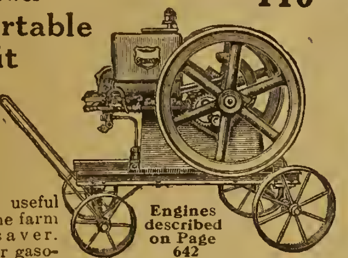
Article Number	Description	Shipping Weight	Price Each
289 C 5080	Saw Rig Complete with 5 H. P. Gasoline Engine......	1670 lbs.	$187.00
289 C 5070	5 H. P. Gasoline Engine only on Horse Truck........	1460 lbs.	149.50
289 C 5081	Saw Rig Complete with 5 H. P. Kerosene Engine......	1680 lbs.	197.00
289 C 5071	5 H. P. Kerosene Engine only on Horse Truck........	1470 lbs.	159.50
289 C 5084	Saw Rig Complete with 7 H. P. Gasoline Engine......	1885 lbs.	226.50
289 C 5074	7 H. P. Gasoline Engine only on Horse Truck........	1675 lbs.	189.00
289 C 5085	Saw Rig Complete with 7 H. P. Kerosene Engine.....	1900 lbs.	241.50
289 C 5075	7 H. P. Kerosene Engine only on Horse Truck........	1700 lbs.	204.00

289 C 5076—Horse Truck only with pole, for 5 or 7 H. P. engines. (State H. P., serial number of engine and center to center distances in width and length of 5 H. P. base bolt holes or 7 H. P. bed bolt holes). Shipping weight, 700 pounds....................**$60.00**

Shipped from Factory in Springfield, Illinois

5-Horse Power Hand Portable Outfit

$116.15



Engines described on Page 642

A 5-Horse Power Sattley Engine mounted on a Steel Channel Beam Truck with "I" beam braced axles makes a very useful power outfit for the farm —a big time-saver. Either kerosene or gasoline engine furnished on this truck.

The wheels are large so that the outfit can be moved over uneven ground with a minimum of effort. The front truck can be swung around and set crosswise to help brace the engine when running. Four bolts fasten the engine to the truck.

289 C 5088—5-Horse Power Sattley Gasoline Engine with 14-inch Pulley, Webster Magneto and Three-Speed Governor. Mounted on steel truck. Shipping weight, 1080 lbs..**$116.15**

289 C 5089—5-Horse Power Kerosene Engine with 14-inch Pulley, Throttling Governor and Webster Magneto. Mounted on steel truck. Shipping weight, 1090 pounds.........**$126.50**

289 C 5037—Steel Truck only. Ship. wt., 150 lbs. **14.50**

3-Horse Power Engines Mounted on steel wheel truck with wood beams

This truck has 9-inch diameter front and rear wheels with 2-inch tires; pipe axles, 1 inch diameter. Wood beams, 42 by 3½ by 3½ inches with holes bored and bolts furnished for mounting.

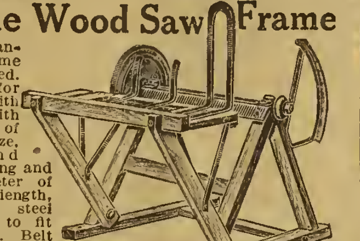
289 C 5059—3-Horse Power Gasoline Engine. Mounted on wood beam truck. Shipping weight, 545 pounds **$81.00**

289 C 5162—3-Horse Power Throttling Governor Kerosene Engine. Mounted on wood beam truck. Shipping weight, 590 pounds..................................**$86.00**

289 C 5035—Wood Beam Truck only. Shipping weight, 75 pounds.................................. **$6.50**

Shipped from Factory in Western Illinois

Tilting Table Wood Saw Frame

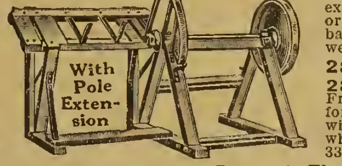


$17.95

Cold rolled steel mandrel, 1½-inch; bolted frame extra strong. Well braced. Made in two styles for cordwood only and with attachment for use with long poles. Frame is of dry hardwood full size, thoroughly ironed and braced. Bearings are long and well babbitted. Diameter of saw arbor, 1½ inches; length, 49 inches, cold-rolled steel turned down at ends to fit saws with 1⅜-inch holes. Belt pulley, diameter, 5 inches, with 6-inch face. Heavy iron saw guard. Speed 750 to 1,000 revolutions per minute. Saw Blade is extra. For prices, see Page 587.

287 C s6432—balanc With 60-pounde wheel. Shipping weight, 275 pounds............................**$17.95**

287 C 6434—With 95-pound balance wheel. Shipping weight, 310 pounds..............................**$19.85**



With Pole Extension

Saw Frame, with pole extension for cordwood or poles, with 60-pound balance wheel. Shipping weight, 300 pounds.

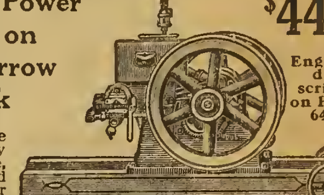
287 C 6436..$19.95

287 C 6438 — Saw Frame, with pole extension for cordwood or poles, with 95-pound balance wheel. Shipping weight, 335 pounds.....**$21.90**

Shipped from Factory in Western Illinois

1½-Horse Power Engine on Wheelbarrow Truck

$44.70



Engines described on Page 642

A 1½-Horse Power Sattley Gasoline Engine, mounted on wood skids with a pair of wheels arranged to form a wheelbarrow truck. When set down the wheels clear the ground and engine rests on the skids, making a solid foundation. Holes bored and bolts furnished to mount engine easily, when received.

289 C 5046—1½-Horse Power Sattley Gasoline Engine; mounted on two-wheel truck. Shipping weight, 265 pounds. **$44.70**

289 C 5049—Wheelbarrow Truck only. Wt., 20 lbs.. **1.75**

289 C 5043—1½-Horse Power Sattley Gasoline Engine, mounted on 4-wheel steel truck. Shipping weight, 295 pounds. **$47.45**

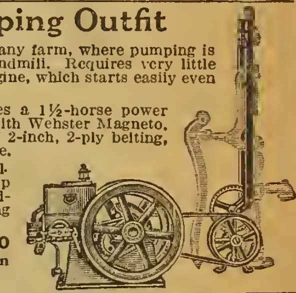
289 C 5051—4-wheel Steel Truck only. Wt., 50 lbs.. **4.50**

Shipped from Factory in Springfield, Illinois

Sattley Pumping Outfit

A great labor-saver on any farm, where pumping is done by hand or with windmill. Requires very little gasoline to operate the engine, which starts easily even in coldest weather.

Pumping Outfit includes a 1½-horse power Sattley Gasoline Engine with Webster Magneto, pump jack and 16 feet of 2-inch, 2-ply belting. Pump not included in price.



May be used with almost any type of pump standard having a windmill top. Total shipping weight, 290 pounds.

289 C 5054..$48.10

Shipped from Factory in Springfield, Illinois

Complete Showing of Pumps on Page 618

Swing Table Wood Saw Frame

$26.95

Works equally well with cordwood or poles. Balance wheel is low down, and out of the way of long poles, giving machine steadier motion than if attached to mandrel. Diameter of mandrel, 1½ inches, cold-rolled steel; length, 49 inches, turned at arbor to fit saws with 1⅜-inch hole. Tightener pulley in center hung on strong bracket box. Diameter of pulleys, 5 inches with 6-inch face. All bearings babbitted. 95-pound balance wheel. Speed per minute, 750 to 1,000 revolutions. Saw blades are extra. See Page 587. Right hand only. (Wood drops to your right.) Shipping weight, 400 pounds.

287 C 6440..............**$26.95**

Shipped from Factory in Western Illinois

Sliding Table Pole Saw Frame

$34.25

Right hand pole saw frame. (Cut-off wood drops to your right hand). For sawing poles and cordwood. Sliding table pattern. Balance wheel on separate shaft, allowing sawing of poles as well as cordwood. Belt tightener pulley on heavy bracket shaft box prevents belt slipping and insures even motion. Frame seasoned hardwood, strongly bolted and thoroughly braced. Safety hood over saw blade. Diameter of arbor and mandrel pulleys, 5 inches, 6-inch face. 95-pound balance wheel. All bearings well babbitted. 1½-inch cold-rolled steel mandrel with 1⅜-inch arbor. Speed 750 to 1,000 revolutions per minute. Saw blades extra. For prices see Page 587. Shipping weight, 430 pounds.

287 C 6442..................................**$34.25**

Shipped from Factory in Western Illinois

Swing Table Pole Saw Frame

$23.85 7-Foot Size

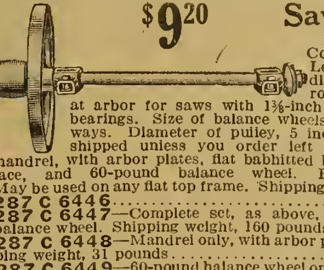
Frame made of seasoned hardwood well braced. Bearings long and well babbitted. Diameter mandrel, 1½ inches; cold-rolled steel turned down to 1⅜ inches at arbor. Diameter of pulley, 5 inches with 6-inch face; 95-pound balance wheel. Suitable for saws 20 to 30 inches diameter. Speed, 750 to 1,000 revolutions a minute. Tilting table is fitted with 3 rollers. Compression spring returns table to position. Steel lever fitted with dogs holds pole in place. Saw blades are extra. For prices, see Page 587. Right hand only. 7-foot size. Shipping weight, 350 pounds.

287 C 6444..................................**$23.85**

Shipped from Factory in Western Illinois

Saw Mandrel Sets

$9.20



For use on flat top Pole or Cordwood Sawing Outfits. Length of mandrel, 49 inches; diameter, 1½ inches. Cold-rolled steel turned to 1⅜ inches at arbor for saws with 1⅜-inch holes. Boxes have babbitted bearings. Size of balance wheels, 60 and 95 pounds with key ways. Diameter of pulley, 5 inches, 6-inch face. Right hand shipped unless you order left hand. Complete set includes mandrel, with arbor plates, flat babbitted boxes, 5-inch pulley with 6-inch face, and 60-pound balance wheel. Bolts not included in prices. May be used on any flat top frame. Shipping weight, 125 pounds.

287 C 6446.............................. **$ 9.20**

287 C 6447—Complete set, as above, but with 95-pound balance wheel. Shipping weight, 160 pounds.................. **10.95**

287 C 6448—Mandrel only, with arbor plates and nut. Shipping weight, 31 pounds.................................. **2.75**

287 C 6449—60-pound balance wheel only. Shipping weight, 60 pounds.................................. **3.50**

287 C 6450—95-pound balance wheel only. Shipping weight, 95 pounds.................................. **5.25**

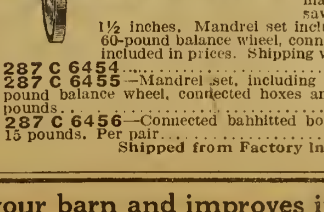
287 C 6451—Flat babbitted boxes. Shipping weight, per pair, 15 pounds. Per pair.................................. **1.75**

287 C 6452—Pulley, 5-inch diameter, 6-inch face. Shipping weight, 6 pounds.................................. **1.20**

Shipped from Factory in Western Illinois

Saw Mandrel Sets with Connected Boxes

$10.25



Balance wheels, 60 and 95 pounds with key ways. Length of mandrel, 49 inches with 1⅜-inch saw arbor. Diameter of mandrel, 1½ inches. Mandrel set includes mandrel with arbor plates, 60-pound balance wheel, connected boxes and pulley. Bolts not included in prices. Shipping weight, 140 pounds.

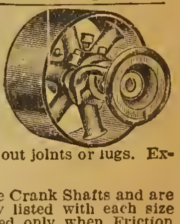
287 C 6454..................................**$10.25**

287 C 6455—Mandrel set, including mandrel with arbor plates, 95-pound balance wheel, connected boxes and pulley. Shipping weight, 170 pounds..................................**$12.00**

287 C 6456—Connected babbitted boxes. Shipping weight, per pair, 15 pounds. Per pair..................................**$2.95**

Shipped from Factory in Western Illinois

Friction Clutch Pulleys



Our hug grip clutch pulley with contracting band is constructed of only 11 parts, simple to operate and adjust. The wide friction band worked by a single toggle lever secures positive action and insures long life. The entire adjustment is made by tightening or loosening one nut. The hand wheel is a one-piece casting without joints or lugs. Extra wide pulley bearing.

287 C 5280

These sizes are bored for Sattley Engine Crank Shafts and are the same size as the regular plain pulley listed with each size engine. The prices quoted are to be used only when Friction Clutch Pulleys are ordered and **shipped in place of the regular plain pulley with new Sattley Engines.**

Diameter and Face	Sattley Engine	Bore	Shipping Weight	Price Each
8 by 4 in.	3 h. p.	1½ inches	45 pounds	$11.50
12 by 6 in.	5 h. p.	2 inches	60 pounds	12.50
16 by 6 in.	7 h. p.	2⅛ inches	80 pounds	15.00

Made to Order Friction Clutch Pulleys

387 C 5281

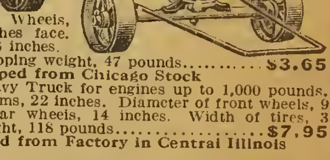
If you wish to equip the engine you have with a Friction Clutch Pulley, make your selection from the following list, being careful to state diameter and width of face, diameter and length of crank shaft extension, the H. P. and speed of engine. We require 5 to 10 days to fill orders for made-to-order-pulleys.

Shipped only from Factory in Chicago

Diam. and Face In.	Max. H. P. Clutch Cap.	Largest Bore In.	Shipping Wt. Lbs.	Price Each	Diam. and Face In.	Max. H. P. Clutch Cap.	Largest Bore In.	Shipping Wt. Lbs.	Price Each
8x4	3	1½	45	$14.25	20x8	12	2¾	145	$26.50
12x6	6	2⅛	50	19.35	22x8	12	2¾	155	27.50
14x6	6	2⅛	70	20.00	24x8	16	3	175	33.75
16x6	8	2½	80	23.50					

Steel Wheel Engine Truck

$3.65



Truck has wood cross-beams, each 1⅝ by 3½ by 16¼ inches. Engine base or box bolted to beam acts as frame. Wheels, 9 inches by 1¾ inches face. Tubular axles, 1 by 26 inches.

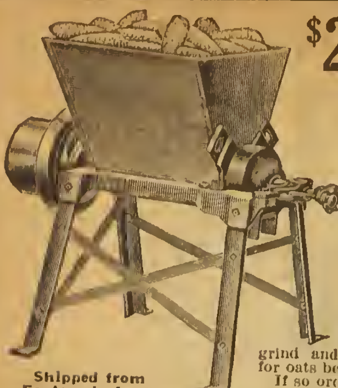
189 C 5326—Shipping weight, 47 pounds...........**$3.65**

Shipped from Chicago Stock

289 C 5328—Heavy Truck for engines up to 1,000 pounds. Width, outside of beams, 22 inches. Diameter of front wheels, 9 inches. Diameter rear wheels, 14 inches. Width of tires, 3 inches. Shipping weight, 118 pounds...................**$7.95**

Shipped from Factory in Central Illinois

Power Feed Mill



$21.95

Grinds corn on cob, shelled corn, kaffir corn, milo maize, wheat, oats, barley, rye and other grain separately or mixed.

Frame, single casting, designed to resist six times ordinary strain. Heavy riveted corners. Steel legs with cross braces. Spiral, concave cob breakers of hard chilled iron bolted to frame. Cob crushers secured to shaft by safety break pin. Extra long bearings. Large oil wells. Main shaft heavy cold rolled steel, 1¼ inches on the 8-inch No. 1 Mill and 1½ inches on the 10-inch No. 2 Mill. Should be operated with from 4 to 7 horse power for No. 1 Mill and 7 to 12 horse power for No. 2 Mill, and run at from 400 to 700 revolutions a minute, according to power. No. 1 will grind from 10 to 35 bushels and No. 2 from 20 to 60 bushels per hour depending entirely on the power, speed, kind of grain and its condition, whether dry or damp and also whether grinding coarse or fine. Prices include balance wheel and two sets of burrs.

When ordering burrs give numbers on old ones.

The Crowfoot burrs used on these mills will outgrind and outwear any ordinary burr and are especially good for oats because they cut up the hulls.

If so ordered will fit 8-inch mill with pulley 8 by 6 inches or 12 by 6 inches and 10-inch mill with pulley 10 by 6 inches or 14 by 6 inches. Lag screws for fastening to floor are furnished also.

Shipped from Factory in Iowa

Article Number	Size Mill	Size Pulley	Shipping Weight	Price Each	Extra Burrs Number	Extra Burrs Per Pair
287 C 3024	8 in.	10 by 6 in.	245 lbs.	$21.95	287 C 3028	$1.25
287 C 3026	10 in.	12 by 6 in.	355 lbs.	31.75	287 C 3030	1.55

287 C 3032—5-foot Double Sacking Elevator. Shipping weight, 75 pounds........**$16.80**

Flour and Meal Feed Grinder

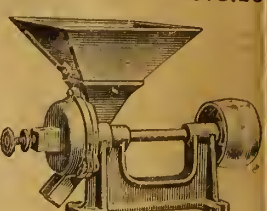
$13.20

Grinds meal fine enough for table use. The bolting attachment makes the flour or meal suitable for family use. Burrs can be adjusted for either coarse or fine grinding. Mill fitted with set of Special burrs for fine grinding and an Extra Set of Crowfoot burrs are also furnished.

Requires 1 to 4 horse power to grind from 6 to 20 bushels per hour, depending on quality of grain and fineness of grinding. Diameter of burrs, 5½ inches; regular pulley 7 inches in diameter, with 4-inch face. We can furnish 12 by 3-inch pulley in place of regular pulley, upon request. Speed 200 to 600 revolutions per minute.

Complete with bolting attachment, legs, lag screws and balance wheel and pulley. Shipping weight, 125 pounds.

287 C 3004.............**$13.20**



287 C 3012—Feed grinder only, without legs or balance wheel and without bolting attachment. Shipping weight, 75 pounds..............**$9.25**

287 C 3016—Set of legs for grinder, with lag screws. Shipping weight, per set, 20 pounds. Per set..................**$1.05**

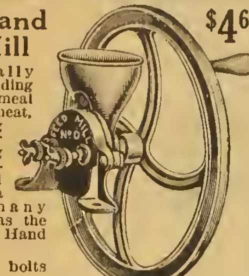
287 C 3018—Balance wheel. Shipping weight, 20 pounds..................**1.40**

Shipped from Factory in Central Iowa

287 C 3006—Extra Burrs, fine or coarse. State which wanted and give numbers on old burrs. Shipping weight, per pair, 3¼ pounds. Per pair..................**85¢**

Shipped from Stock or Factory in Iowa

Wilson Hand Grist Mill



$4.65

Mill especially adapted for grinding flour and corn meal for table use, wheat, rice and cracking corn and other grains for feeding purposes. Genuine Wilson Hand Grist Mill with a reputation of many years standing as the highest type of Hand Mill.

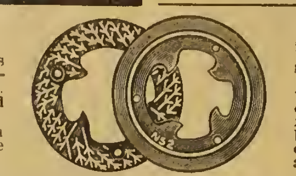
No screws or bolts included.

The Grinding Burrs are of extra hard metal ground true on emery wheels and will give long service. They are adjustable for fine and coarse grinding. Has large hopper, steel shaft and heavy balance wheel. Shipping weight, 27 pounds.

487 C 2936......................**$4.65**

87 C 2938—Extra Burrs. Shipping weight, per pair, 2 pounds. Per pair..............**33¢**

Crowfoot Burrs



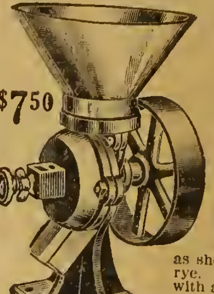
This burr is used in Power Mills 287 C 3024, 287 C 3026, 287 C 3004, 287 C 3012, and 287 C 3000. Self sharpening, fast grinding and durable.

Oats. No other style burr can grind oats so well because the Crowfoot cuts up the hulls.

It also does splendid work grinding ear corn, shelled corn, wheat, rye, barley or any dry grain.

Notice. These Crowfoot burrs will not fit in old mills. Do not order Crowfoot burrs unless your mill was fitted with Crowfoot burrs when received. When ordering any kind of new burrs, always give numbers on old burrs.

Small Grain Mill



$7.50

For Grinding Small Grain such as Wheat, Rye, Oats, Corn, etc.

Here is one of the most popular Feed Mills made for grinding all kinds of grain such as shelled corn, oats and rye. Can be operated with any engine or motor power from one horse power up.

Frame is cast in one piece and is solid and strong; lag screws are included. Bearings are long and lined with a high-grade babbitt. The Crowfoot burrs are 5½ inches in diameter, ground perfectly true. These burrs can easily be adjusted for fine or coarse grinding. Capacity, from 6 to 20 bushels per hour, depending entirely on the power, kind of grain, and its condition. Should be run from 200 to 600 revolutions a minute. Pulley is 12 inches in diameter, with 3-inch face.

Furnished complete with two pair of burrs, one coarse and one fine. Shipping weight of mill, 62 pounds; of burrs, per set, 3¼ pounds.

287 C 3000......................**$7.50**

287 C 3001—Extra Burrs, fine. Pair **.85**

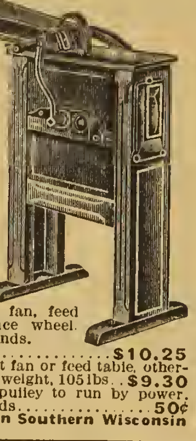
287 C 3002—Extra Burrs, coarse. Pair **.85**

Always give numbers on old burrs when ordering new ones.

Shipped from Factory in Iowa

Climax Corn Sheller

$10.25



Framework is hardwood strongly joined together with mortised and tenoned joints. Low gear and heavy balance wheel make it easy to operate. Cold-rolled steel shaft. Large spout fitted with slotted holes by which it is adjustable for small or large corn. Ample feed table attached to large throat. Delivers cob on end. Furnished complete with fan and feed table, or plain, as desired. Capacity, about 10 bushels per hour.

Sheller complete with fan, feed table, crank and balance wheel. Shipping weight, 120 pounds.

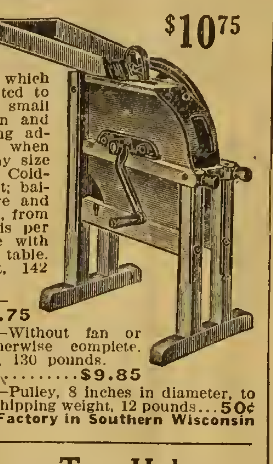
287 C 2730...................**$10.25**

287 C 2732—Without fan or feed table, otherwise complete. Shipping weight, 105 lbs. .**$9.30**

287 C 2734—8-inch pulley to run by power. Shipping weight, 12 pounds..............**50¢**

Shipped from Factory in Southern Wisconsin

Buckeye Corn Sheller



$10.75

Made of selected hard wood, rigidly bolted. Spout fitted with slotted holes, by which it can be adjusted to shell large or small ears. Rag iron and controlling spring adjustable, and when properly set, any size may be shelled. Cold-rolled steel shaft; balance wheel large and heavy. Capacity, from 10 to 20 bushels per hour. Complete with fan and feed table. Shipping weight, 142 pounds.

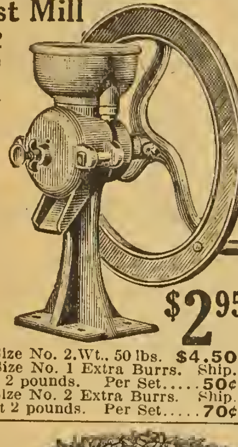
287 C 2736—........**$10.75**

287 C 2738—Without fan or feed table, otherwise complete. Shipping weight, 130 pounds. **$9.85**

287 C 2734—Pulley, 8 inches in diameter, to run by power. Shipping weight, 12 pounds...**50¢**

Shipped from Factory in Southern Wisconsin

Stand Grist Mill



Adjustable to grind fine or coarse. Grinds small grains, corn, wheat, oats; also coffee, salt, dry bones, dry shells, etc. Size 1, suitable for kitchen use grinding feed, cracking corn, etc. Size 2 has larger burrs, and heavier balance wheel, giving much greater capacity. Furnished with four screws for attaching to table or bench.

$2.95

487 C 2950—Size No. 1. Wt., 25 lbs.....**$2.95**

487 C 2951—Size No. 2. Wt., 50 lbs. **$4.50**

487 C 2953—Size No. 1 Extra Burrs. Ship. wt., per pair about 2 pounds. Per Set.....**50¢**

487 C 2954—Size No. 2 Extra Burrs. Ship. wt., per pair, about 2 pounds. Per Set.....**70¢**

Two-Hole Corn Sheller Hand or Power

$20.25

Hand or Power Sheller for general farm use. Frame is heavy hardwood, firmly fastened together. Shaft is heavy cold-rolled steel, and runs in iron bearings, bored through and bolted. Shelling Wheels geared high to give good capacity. Feed spout directly over shelling wheel. Rag iron and springs adjustable to any size corn. Cob-carrier separates shelled corn from cobs, delivering the cobs at a distance from the foot of the sheller. Has a Fan for cleaning corn and putting it in a marketable condition. Complete with Cob-Carrier, Fan, Feed Table, Crank and 8-inch Pulley. When run by power the pulley on balance wheel shaft should make 300 revolutions per minute. Can be operated with any small engine. Capacity, 20 to 30 bushels per hour. Shipping weight, 250 pounds.

Complete with Cob-Carrier, Fan, Feed Table, Crank and 8-inch Pulley.

287 C 2742......................**$20.25**

Shipped from Factory in Southern Wisconsin

Big-Four Sweep Mill Triple Geared

$37.50

Grinds ear corn rapidly, either coarse or fine, also other small grains.

Burrs make three revolutions to each round of the horses.

Diameter of burrs, 16 inches; height, 3⅛ inches; made of white metal so hard that with ordinary care set should grind from 6,000 to 8,000 bushels of grain. With corn in fair condition and team making 3½ revolutions per minute, will grind 12 to 20 bushels per hour. Capacity for oats is about one-half of corn, but half and half oats and corn or other hard grains, gives good capacity. A hand lever at top allows tightening and loosening of burrs when hopper is full of grain. Made with coarse burrs for shelled corn and cob corn, and fine burrs for shelled corn and small grains. Coarse burrs regularly furnished. Shipping weight of mill, 600 pounds; burrs, 40 pounds.

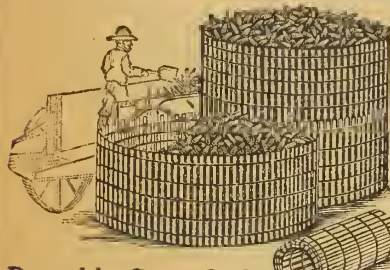
287 C 3050—With sweep, wood platform and one pair burrs......................**$37.50**

287 C 3052—Coarse Burrs, per set **4.20**

287 C 3054—Fine Burrs, per set... **4.20**

When ordering burrs for old mills give number or marks on your old burrs.

Portable Corn Crib

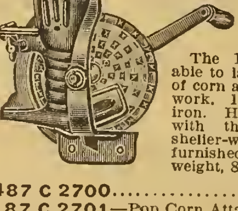


Heavy hardwood slats, set 2 inches apart and bound with 5 cables. 400 and 600 bushel sizes made in one section only 4 feet high. Larger sizes made in two sections, each 4 feet high, making total of eight feet.

Article Number	Cap. Bush.	Diam. Circle Feet	Ship. Wt. Lbs.	Price Each
287 C 2840	400	16	280	$4.45
287 C 2842	600	21	340	5.95
287 C 2844	900	17	420	9.60
287 C 2846	1200	19½	480	11.75
287 C 2848	1500	22	640	13.25

Shipped from Factory in Northern Illinois

Dandy Corn Sheller



90¢

The Dandy is adjustable to large or small ears of corn and does first class work. It is made of cast iron. Has spring tension with thumb nut, large sheller-wheel. No bolts furnished. Shipping weight, 8 pounds.

487 C 2700.........................**90¢**

87 C 2701—Pop Corn Attachment.....**10¢**

Neverfail Corn Sheller

$1.75 Clamps to Box or Barrel

Will deposit the corn in barrel or box on which it is mounted, and deposit cobs outside.

Made of heavy cast iron.

Sheller with Butting and Tipping Attachment. Shipping weight, 13¼ pounds.

487 C 2704......................**$1.75**

Plain Mill, on Box

Not geared. Burrs, 16½ inches in diameter. Mounted on box, not on legs. Capacity, 5 to 8 bushels dry corn per hour. Fine or coarse burrs. Coarse burrs shipped unless otherwise ordered. Ship. wt. of mill, 270 pounds. Burrs, 40 pounds.

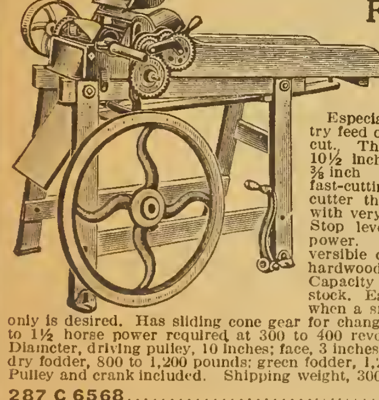
287 C 3056—Sweep Mill on Box...**$22.75**

287 C 3068—Fine Burrs, per pair. **4.20**

287 C 3069—Coarse Burrs, per pair **4.20**

Shipped from Factory in Iowa

Power or Hand Driven Feed Cutter



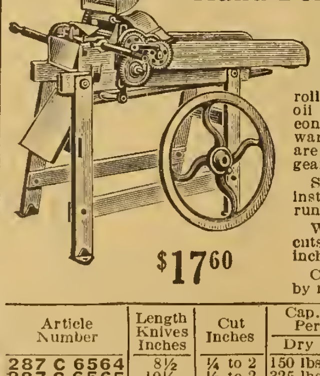
$29.50

Especially adapted for poultry feed on account of its fine cut. Three knives, length, 10½ inches. Cuts ⅛, ¼, or ⅜ inch lengths. Powerful fast-cutting feed and ensilage cutter that can be operated with very light safety lever. Stop lever pulley to run by power. Safety flywheel, reversible cutting bars. Heavy hardwood bolted Frame. Capacity for 10 to 20 head of stock. Easy to run by hand, when a small amount of feed only is desired. Has sliding cone gear for changing length of cut. 1 to 1½ horse power required at 300 to 400 revolutions per minute. Diameter, driving pulley, 10 inches; face, 3 inches. Capacity per hour, dry fodder, 800 to 1,200 pounds; green fodder, 1,200 to 2,400 pounds. Pulley and crank included. Shipping weight, 300 pounds.

287 C 6568.................................**$29.50**

Shipped from Factory in Southern Wisconsin

Hand Driven Feed Cutter



$17.60

Has heavy balance wheel which, with the shearing cut of knives make the machine very light running. Frame heavy hardwood, strongly bolted. Shaft is heavy, cold-rolled steel. The two knives are oil tempered tool steel and so constructed as to make a downward shearing cut. Feed rolls are large and driven by expansion gearing.

Safety lever stops feed roll instantly while the machine is running.

When both knives are used the cuts on smaller machine are ¼ inch, ⅝ inch or 1 inch in length.

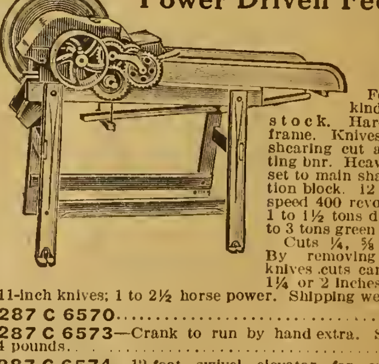
Cuts can be made twice as long by removing one of the knives.

Article Number	Length Knives Inches	Cut Inches	Cap. Fodder Per Hour Dry	Cap. Fodder Per Hour Green	Ship. Weight	Price Each
287 C 6564	8½	¼ to 2	150 lbs.	300 lbs.	150 lbs.	$17.60
287 C 6565	10½	½ to 2	325 lbs.	600 lbs.	280 lbs.	26.50

287 C 6566—Pulley, 10 by 3 inches for 287 C 6565 only, to run by light power. Shipping weight, 18 pounds..........**$2.20**

Shipped from Factory in Southern Wisconsin

Power Driven Feed Cutter



$36.95

For cutting up any kind of feed for stock. Hardwood bolted frame. Knives set spirally for shearing cut against steel cutting bar. Heavy safety flywheel set to main shaft by safety friction block. 12 by 4-inch pulley; speed 400 revolutions; capacity 1 to 1½ tons dry fodder and 2 to 3 tons green fodder per hour.

Cuts ¼, ⅝ or 1 inch long. By removing two opposite knives cuts can be made ½ to 1¼ or 2 inches long. Has four 11-inch knives; 1 to 2½ horse power. Shipping weight, 400 pounds

287 C 6570.................................**$36.95**

287 C 6573—Crank to run by hand extra. Shipping weight, 4 pounds..................**$1.05**

287 C 6574—12-foot swivel elevator for cutter. Shipping weight, 200 pounds..................**$35.00**

287 C 6576—Extension to increase elevator in 4, 8 or 12-foot lengths. Shipping weight, per foot, 12 pounds. Per foot. **$1.25**

Shipped from Factory in Southern Wisconsin

See Pages 649 to 661 for our complete line of Harness, Strapwork and Supplies

Senior Cider Mill

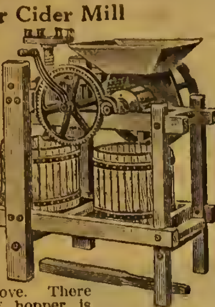
$28.50

A high-grade; force feed Mill. Crushes large or small fruit quickly and thoroughly. Capacity, 50 to 60 bushels or 125 to 150 gallons per day. Heavy hardwood frame, rigidly bolted. Wood cylinder with sharp edged steel pins. Heavy steel press screw. Large hopper, fastens to top of frame with strong latch, which can be unlatched instantly and entire hopper removed for quick and easy cleaning of all working parts. Two tubs—you can press one while filling the other. Each tub made of hardwood slats riveted to iron bands; diameter, 14 inches; height, 13½ inches. Two cranks, one on each side, enable two boys to run the mill. Shipping weight, 330 pounds.

287 C 6419........................**$28.50**
Clamp Pulley, 10 by 4 inches, for belt power. Shipping weight, 15 pounds. Extra......**$1.40**
Shipped from Factory in Southern Wisconsin

Junior Cider Mill

$16.50



This is one of the most popular Cider Mills made—just the right size for the average farm. In the illustration, a part of the hopper is removed to show the cylinder and inside working parts. The complete hopper, and the cylinder are the same as on the Senior Mill above. There are two tubs. The hopper is large with force feed. The frame is hardwood, securely bolted. The press screw is made of heavy steel.

Diameter of press tubs, 9½ inches; height, 10½ inches. Capacity of mill, 25 to 35 bushels or 60 to 70 gallons per day. Ship. wt., 155 pounds.

287 C 6418........................**$16.50**
Clamp Pulley, 8 by 4 inches, for belt power. Shipping weight, 10 pounds. Extra.....**$1.05**

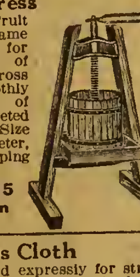
287 C 6415—Medium Cider Mill same construction as Junior Mill except larger capacity. Diameter of press tubs, 14 inches. Height, 12½ inches. Capacity, 75 to 100 gallons. Shipping weight, 215 pounds........................**$21.70**
Shipped from Factory in Southern Wisconsin

Force Feed Cider Mill

High grade single tub, family size, force feed Mill. Has larger hopper and wider throat than is usually found in mills of this type. Cast iron frame hopper. Wood cylinder with sharp edged steel pins works on same principle as Junior and Senior mills. Steel screw. Large balance wheel makes it run easily. Capacity, 1½ barrels of cider per day. Diameter of the tub, 9½ inches. Height, 10½ inches. Shipping weight, 130 pounds.

287 C 6417...**$13.95**
Clamp Pulley 8 by 4 inches for belt power. Shipping weight, 10 pounds. Extra..............**$1.05**
Shipped from Factory in Southern Wisconsin

Fruit Press



Strong, substantial Fruit Press with heavy wood frame securely bolted. Suitable for grapes and all varieties of small fruits. Heavy cast cross head and steel screw smoothly finished. Tub is made of smooth hardwood slats riveted to wrought iron hoops. Size of tub, 9½ inches in diameter, and 10½ inches high. Shipping weight, 60 pounds.

287 C 6416.....**$6.95**
Shipped from Factory in Southern Wisconsin

Cider Press Cloth

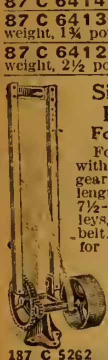
Made of 6-ply cotton cord expressly for straining juice in cider mill tubs. Stitched selvedge on four sides. Size, 40 by 40 inches. Shipping weight, 1¼ pounds.

87 C 6414..........................**82¢**

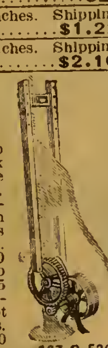
87 C 6413—Size, 50 by 50 inches. Shipping weight, 1¾ pounds......................**$1.22**

87 C 6412—Size, 66 by 66 inches. Shipping weight, 2½ pounds......................**$2.10**

Single Geared Pump Jacks
For Shallow Wells



187 C 5262



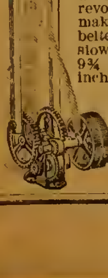
187 C 5260

For any ordinary pump with windmill top. Back geared, 4¼ to 1. Three lengths stroke: 5-inch, 7½-inch, 10-inch. Pulleys, 12-inch for 2-inch belt. Clamps and bolts for attaching included. No. 187 C 5260 clamps to pump standards up to 5 inches outside diameter. Pumps not included in prices. Shipping weight, 70 pounds.

187 C 5260......................**$5.15**

187 C 5262—Same as above except sub-base instead of clamp. Bolts to floor, wall or ceiling. Shipping weight, 80 pounds............**$6.15**

Pump Jacks
Double Back Geared for Deep or Shallow Wells



For use with engines of all sizes and any pump with upright standard and windmill head. Pulleys make 341 revolutions per minute while pump is making 35 strokes per minute. Can be belted direct to small engine without slowing engine down. Back geared—9¾ to 1. Three strokes: 4½, 7 and 10 inches. Pulleys, 12 inches in diameter for 2-inch belt. Pump not included. Shipping weight, 95 pounds.

287 C 5264.........**$7.35**
Shipped from Factory in Southern Wisconsin

Guaranteed Pure Manila Rope

1¾¢ Per Foot ½-inch

Our rope is full size, flexible and long wearing. Made from high grade stock and will meet your every requirement. We can supply lengths up to 1,200 feet in one coil.

Manila Lariat Rope

Pure Manila. Cut to any desired length. Is hard laid, will not kink and runs well. Weight, per 100 feet, 7½ pounds.

187 C 6270 — 7/16 inch, 3 Strand. Per foot..................2¢

187 C 6272 — 7/16 inch, 4 Strand. Per foot.............2¼¢

Hawser Laid Pure Manila Rope

Pure Manila, long fiber. Cut to any length. Used largely for well-drilling cable. Prices on larger sizes quoted upon application. Weight per 100 feet, ¾ inch, 19 pounds. ⅞ inch, 27 pounds; 1 inch, 32 pounds.

187 C 6264—¾-inch Hawser laid 9 strand. Per foot..............4¢

187 C 6266—⅞-inch Hawser laid 9 strand. Per foot..............6¢

87 C 6268 — 1-inch Hawser laid 9 strand. Per foot..............7¢

Size of rope	¼ inch	⅜ inch	½ inch	¾ inch
Article Number	187 C 6230	187 C 6232	187 C 6236	187 C 6240
Per foot	½¢	1¢	1¾¢	3¼¢
100 feet	45¢	90¢	$1.60	$3.00
Weight, per 100 feet	2 pounds	4 pounds	7½ pounds	17 pounds

Size of rope	⅞ inch	1 inch	1⅛ inch	1¼ inch
Article Number	187 C 6244	187 C 6248	187 C 6252	187 C 6256
Per foot	4½¢	6¢	7¢	8¢
100 feet	$4.15	$5.40	$6.35	$7.20
Weight, per 100 feet	22 pounds	27 pounds	36 pounds	42 pounds

Concrete Batch Mixers

$28.75

Strongly constructed throughout so as to withstand any amount of hard service. Just the right size for all kinds of farm work. Will pay for itself quickly on any farm for such jobs as building granaries, sidewalks, foundations, feeding pens and walls. Pulley is 16 inches in diameter, with 3-inch face and should be run 150 to 200 revolutions per minute. Can be operated with 1 horse power engine and up. Crank is also furnished so that it can be run by hand when desired.

Frame is strong angle steel. Heavy steel drum. Cone shaped to give best results. Three blades inside get perfect mix. Drum is 18 inches top diameter, 22 inches bottom diameter, and 22 inches deep. Mixes one wheelbarrow load. Loads on either side and dumps on either side. The yoke is held in the frame by bearings which bolt securely to the frame casting. Perfectly balanced so it can be tilted easily with full load. The gear ratio is 5¼ to 1. The bearings have hard oil cups.

287 C 5862—Batch mixer with pulley, on skids. Shipping weight, 240 pounds..............**$28.75**

287 C 5864—Batch Mixer with pulley, on trucks. Shipping weight, 440 pounds..............**$47.50**

287 C 5865—Batch Mixer on trucks with sprocket, 8 feet of chain and sprocket bored to fit your engine. Shipping weight, 480 pounds. **$54.50**

Shipped from Factory in Central Iowa

Continuous Concrete Mixers

$30.95

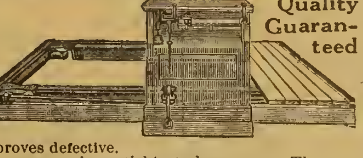
Concrete products are in big demand now for building and road making. Ward's offer a mixer that is sold at such a reasonable price that it is within easy reach of anyone, either for their private use or custom work. A profitable contracting business could be started in a small way with one of these mixers. They are easy to operate, and we supply full directions with each outfit.

The Continuous Mixer is a plain batch mixer with hopper made of 16-gauge sheet steel. The hopper has a capacity of about 2½ cubic feet and is bolted to the mixing drum. Inside is a steel slide to regulate the feed to the mixer, or to shut it off entirely. The mixing drum is about 4 feet long and is equipped with a worm shaped paddle wheel for mixing the concrete. Being made in sections, the mixing blades can be replaced easily and at small cost. Above the mixer is a steel water tank with shut-off valve so that you can always get the proper moisture; tank can also be moved to left or right as desired. The drive pulley is 12 inches in diameter with 3-inch face; should be run at 220 revolutions per minute. Any small engine, 1½ horse power or larger will operate this mixer. Shipping weight, 300 pounds. **Shipped from Factory in Central Iowa**

287 C 5850—Continuous Mixer................................**$30.95**

High Grade Pitless Scales

Quality Guaranteed



Order one of these High Grade Pitless Scales. They are guaranteed to meet requirements of all state laws. Have the satisfaction of knowing that your weights are correct. The pipe beam on our scale combines rigidity, strength, and few working parts. Supplied with double brass beam. Hardwood beam box, well constructed and nicely painted, fitted with lock and key. Building plans and directions with each scale. We will replace free any part that proves defective.

All scales on this page are made in compliance with laws governing weights and measures. They are guaranteed to be absolutely accurate when you receive them and to be so well made that they will weigh accurately for many years even under the most severe usage.

287 C 6369—Pitless Scale, 4-ton capacity. Steel frame, steel joists. Size of platform, 8 by 14 feet. Complete with beam box and double beam. Shipping weight, 1375 pounds.........**$97.50**

287 C 6370—Pitless Scale, 5-ton capacity. Steel frame, steel joists. Size of platform, 8 by 14 feet. Complete with beam box and double beam. Shipping weight, 1400 pounds.........**$99.95**
Platforms are not included with these scales

287 C 6371—Pitless Scale, 6-ton capacity. Steel frame, steel joists. Size of platform, 8 by 14 feet. Complete with beam box and double beam. Shipping weight, 1500 pounds.......**$118.00**

High Grade Motor Truck Scales

287 C 6373—Motor Truck Scale, 10-ton capacity. Steel frame, steel joists. Size platform, 8 by 16 feet. Complete with beam box and double beam. Shipping weight, 3600 pounds..**$205.00**
Shipped from Warehouse in Central Illinois

Scrapers

$6.65

Cutting edge is rounded, allowing it to enter ground easily. Double runner scrapers have two runners of hardened steel securely riveted. Double bottom scrapers have an extra bottom of hard steel riveted.

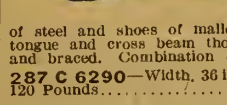
The bowl is made of No. 10 gauge high carbon steel. Heavy steel bail with swivel link on each bail. Handle sockets are steel plates solidly riveted. Handles are smooth hardwood.

Shipped from Factory in Ohio

Article Number	Cubic Feet	Ship. Weight	Plain	With Runners	With Bottom Plate
287 C 6280	3	72 lbs.	$6.65	$7.35	$8.05
287 C 6281	5	90 lbs.	6.95	7.65	8.40
287 C 6282	7	100 lbs.	7.40	8.10	8.75

Tongue Scraper

$9.20



No. 7 gauge steel blade, width, 4½ inches. Draw bars made of steel and shoes of malleable iron. Hardwood tongue and cross beam thoroughly ironed, bolted and braced. Combination draw pin and wrench.

287 C 6290—Width, 36 inches. Shipping weight, 120 Pounds..............................**$9.20**

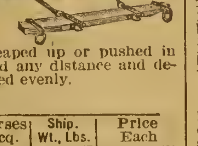
287 C 6291—Width, 42 inches. Shipping weight, 125 pounds..............................**$9.40**

287 C 6292—Width, 48 inches. Shipping weight, 130 pounds..............**$9.50**

Shipped from Factory in Ohio

Buck Scraper

$19.50



High carbon steel body, wrought iron rods and fittings, hardwood drawbars, crossbrace and handle. Runners can be adjusted to any angle desired.

Capacities are actual, and do not include dirt heaped up or pushed in front. Load may be carried any distance and deposited in bulk or distributed evenly.

Article Number	Size No.	Width Inches	Cap. Cu. Ft.	Shoes No.	Horses Req.	Ship. Wt., Lbs.	Price Each
287 C 6284	6	42	8	3	2	240	$19.50
287 C 6285	7	48	8¾	3	3	250	20.85
287 C 6286	8	60	10½	7	4	310	23.50

Shipped from Factory in Ohio

Rustsolvo

$1.00

Cuts rust, carbon, red or white lead, shellac, paint, tar, dried grease, also green corrosion on batteries—without injury to metal, rubber, wood, cloth, or to the hands.

Apply a few drops of Rustsolvo direct to the parts; allow it to penetrate and soften the rust, and the bolt, nut or part can be removed without spoiling the threads or parts.

87 C 812	87 C 813	87 C 814	87 C 815
Gallon Can	½ Gal. Can	Quart Can	Pint Can
$6.00	$3.25	$2.00	$1.00

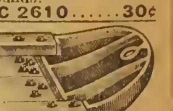
Shipped by prepaid parcel post

Folding Field Crate

Capacity one bushel. Folds compactly. Corners wired. Length, 18 inches; width, 13½ inches; depth, 12 inches. Shipping weight, 7½ pounds.

187 C 2610......**30¢**

Stone Boat Heads



For moving large stones, farm implements, corn fodder and other farm products. Made of very strong cast iron and well ribbed. Strong enough to resist six times the actual working strain. Without bolts or boards. Average shipping weight, 60 pounds.

287 C 6314........................**$3.50**
Shipped from Factory in Michigan or Iowa

Portable Platform Scale

$16.95

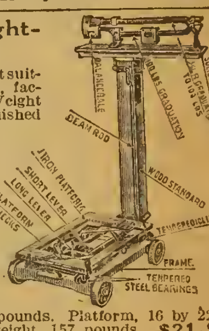
Bearings are self-aligning. Brass beam is graduated from ½ to 100 pounds on two larger sizes; ½ to 50 pounds on the smaller size. All are equipped with tool steel pivots, hard chilled bearings and brass sliding poise.

287 C 6340 Will weigh to 600 pounds. Platform, 16 by 21 inches. Shipping weight, 150 lbs....**$16.95**

287 C 6341—Will weigh to 800 pounds. Platform, 17 by 23 in. Ship. wt., 155 lbs.**$20.50**

287 C 6342— Will weigh to 1,000 pounds. Platform, 18 by 25 in. Ship. wt., 160 lbs.**$22.75**
Shipped from Factory in Central Illinois

Portable Weightless Scale



Handiest and most suitable scale for farm, factory, or store. Weight is readily distinguished on either side of scale. No loose weights. Hard chilled bearings. Tool steel pivots. Brass beam with brass sliding poise on upper bar. After setting scale at time of purchase, no adjustments are necessary.

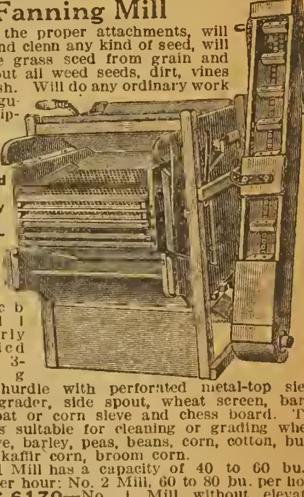
287 C 6346—Will weigh to 600 pounds. Platform, 16 by 22½ inches. Shipping weight, 157 pounds. .**$21.95**

287 C 6347—Will weigh to 800 pounds. Platform, 17 by 23 in. Ship. wt., 165 lbs.**$24.25**

287 C 6348—Will weigh to 1000 pounds. Platform, 18 by 25 in. Ship. wt., 170 lbs...**$26.95**
Shipped from Factory in Central Illinois

Fanning Mill

With the proper attachments, will grade and clean any kind of seed, will separate grass seed from grain and throw out all weed seeds, dirt, vines and trash. Will do any ordinary work with regular equipment.



Shipped from Factory in Southern Wisconsin

Each Mill regularly supplied with 3-gang wheat hurdle with perforated metal-top sieve, wheat grader, side spout, wheat screen, barley sieve, oat or corn sieve and chess board. This outfit is suitable for cleaning or grading wheat, oats, rye, barley, peas, beans, corn, cotton, buckwheat, kaffir corn, broom corn.

No. 1 Mill has a capacity of 40 to 60 bu. of grain per hour: No. 2 Mill, 60 to 80 bu. per hour.

287 C 6170—No. 1 Mill without elevator. Shipping weight, 200 pounds..........**$27.75**

287 C 6171—No. 2 Mill without elevator. Shipping weight, 220 pounds..........**$34.70**

287 C 6172—No. 1 Mill with elevator and bagger. Shipping weight, 265 pounds...**$40.00**

287 C 6173—No. 2 Mill with elevator and bagger. Shipping weight, 285 pounds...**$48.50**

Extra Outfit

Outfit consisting of 1 sieve and 1 screen for cleaning clover, beans, peas, flaxseed, millet seed, broom corn, alfalfa, orchard grass, timothy, for cockle and for separating mustard seed from oats. Shipping weight, 7 pounds. **State size wanted.**

287 C 6178—For No. 1..............**$2.70**
For No. 2.............. **3.15**

Write for prices on special sieves.

Use Steel Water and Feed Troughs for stock and poultry. Page 640

Waterproof Cloth

Black Face Rubber Drill

Leather-Grain Waterproof
For Tops, Cushions and Curtains.

Article No.	Weight	Back	Width	Per yd.
87 C 7862	24 ounces	Black	50 inches	75¢
87 C 7863	28 ounces	Black	50 inches	80¢

We also carry a rubber material treated with great weather resisting properties suitable for highest class work. The drill back is combined with outer fabric by a waterproof coating of rubber, other surface is then finished in long grain leather effect. Width, 54 inches. Shipping weight, per lineal yard, 36 ounces.
87 C 7830—Drab back. Per yd. **$1.35**
87 C 7831—Black back Per yd **1.36**

Artificial Leather

Guaranteed not to peel or crack

Good quality. Black face upholstering substitute for leather. 50 in. wide. Weight, per yard 15 oz.
87 C 7835—Per yard..................**80¢**

Our highest grade. For all sorts of upholstering and closed tops that do not fold. Waterproof, will not crack or peel. Width, 50 inches. Weight, per yard, about 1¾ pounds.
87 C 7839—Black face. Dull finish.
Per yard............................**$1.60**

Mohair Cloth, for Buggy and Auto Tops and Curtains

Waterproof material guaranteed not to peel or crack

For Buggy and Auto Tops and Curtains. Black and white face. Black or drab back.
87 C 7850—Black back. Width, 54 inches. Weight, per yard, about 1½ pounds.
Per yard..............................**$1.30**
87 C 7852—Drab back. Width, 36 inches.
Per yard..............................**85¢**

See-Clear Transparent Sheeting

For lights in curtains and storm fronts. Weight, 6 to 8 ounces. Shipping weight, 2 to 3½ pounds.
87 C 8251—20 by 36 inches. Per sheet..**$1.25**
87 C 8252—20 by 50 inches. Per sheet.. **1.50**

Celluloid Mender

For repairing celluloid. Will attach celluloid to leather curtains without stitching. One bottle will mend 100 lineal feet. Weight, 4 ounces.
87 C 9110—.........**17¢**

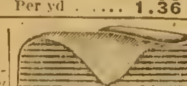
Cushion Cloth and Top Lining

Width, 54 inches. Cotton mixed. Dark green. Weight, per yard, about 8 ounces.
87 C 7765—
Per yard.......**86¢**

Bolster Standards

Height, 14 inches Shipping weight, per set of four, 20 pounds
187 C 8590
Size 3 inches; set of 4....**$4.20**
187 C 8591
Size 3¼ inches, set of 4..**$4.30**

Heavy Corduroy



For upholstering cushions and backs. Width, 30 inches. Weight, per yard, about 16 ounces.
87 C 7767—
Tan. Per yard....**75¢**
87 C 7768—
Green. Per yard.**92¢**

Black Oiled Cotton Duck

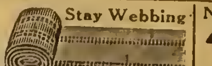
90¢ per Yard

Width, 50 inches. Weight per yard, about 1½ pounds.
87 C 8680—
Per yard..........**90¢**

Combination Welt and Gimp

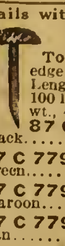
Cord along one edge. Width, ⅝ in. Length, 25 yds. to piece. Shipping weight, 12 ounces.
87 C 7815—Bright black rubber Drill.
Per piece........**40¢**
87 C 7816— Black artificial Leather.
Per piece....... **59¢**

Stay Webbing



Width, 3 inches. For use in making tops, also in upholstering furniture. Weight, per yard, 2 ounces.
87 C 7770—
Per Yard....... **4½¢**
87 C 7771—Full pieces of 70 yards.
Per piece.....**$2.60**

Nails with Colored Heads



To fasten gimp edge of seats. Length, ½ inch, 100 in pkg. Ship. wt., 4 ounces.
87 C 7790—
Black............**18¢**
87 C 7791—
Green............**18¢**
87 C 7792—
Maroon.........**18¢**
87 C 7793—
Tan..............**18¢**

Hair for Trimming

Good grade. 5-pound package
87 C 7785— **$1.25**

6¢ Dozen

Knob Eyelet
Fastens curtains. Leather, Japanned frames. Ship. wt., per dozen, 2 ounces.
87 C 7750—
Per dozen...........**6¢**

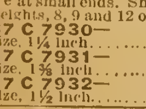
Binding

Flat. Width, ½ inch. Weight, per piece, 6 oz.
87 C 7780—Black, per piece, 25 yards.....**19¢**
87 C 7781—Green, per piece, 25 yards..**25¢**
87 C 7782—Maroon, per piece, 25 yards..**25¢**
87 C 7783—Tan, per piece, 25 yards.....**25¢**

Trimmers' Moss

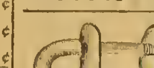
Substitute for hair. In 5-pound package.
87 C 8790......**75¢**

Singletree Hook and Ferrules



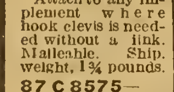
Steel hooks, malleable ferrules. Diameters given are at small ends. Shipping weights, 8, 9 and 12 ounces.
87 C 7930—
Size, 1¼ inch.........**12¢**
87 C 7931—
Size, 1⅜ inch........**13¢**
87 C 7932—
Size, 1½ inch.........**14¢**

Pole Cap with Holdback



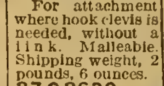
Steel, in one piece. Ship. weight, 1¾ lbs.
87 C 7945....**21¢**

O. K. Clevis



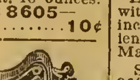
Attach to any implement where hook clevis is needed without a link. Malleable. Ship. weight, 1¾ pounds.
87 C 8575—..........**20¢**

Swivel Clevis



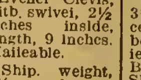
For attachment where hook clevis is needed, without a link. Malleable. Shipping weight, 2 pounds, 6 ounces.
87 C 8630—..........**27¢**

Twisted End Clevis



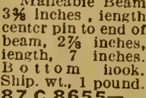
⅝ inch wide. Ship. weight, 10 ounces.
87 C 8605—..........**10¢**

Evener Clevis



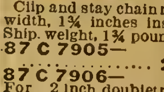
Evener Clevis, with swivel, 2½ inches inside, length, 9 inches. Malleable.
Ship. weight, 3¾ pounds.
87 C 8620—.........**43¢**

Harrow Clevis



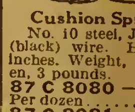
Malleable Beam 3⅜ inches, length center pin to end of beam, 2⅞ inches, length, 7 inches. Bottom hook. Ship. wt., 1 pound.
87 C 8655—..........**14¢**

Steel Wagon Clevis



Clip and stay chain ring, width, 1¾ inches inside. Ship. weight, 1¾ pounds.
87 C 7905—.............. **20¢**
87 C 7906—
For 2 inch doubletree. Weight 2 pounds... **23¢**

Cushion Springs

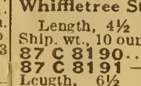


No. 10 steel, Japanned (black) wire. Height, 3 inches. Weight, per dozen, 3 pounds.
87 C 8080—
Per dozen.......... **40¢**
87 C 8081—
Back. No. 14 wire. Height, 4½ inches. Shipping weight, per dozen, 10 oz.
Per dozen..........**25¢**

Brake Lever

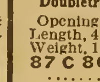
All steel. Length lever, 34½ x 1½ x ⅜. Ratchet, 20 in. x 1½ x 5/16. Ship weight, 13 pounds
187 C 7974—..**$1.45**

Whiffletree Staples



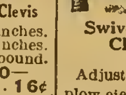
Length, 4½ inches. Ship. wt., 10 ounces.
87 C 8190....**15¢**
87 C 8191—Steel. Length, 6½ inches. Ship. wt., 18 ounces.
..............**22¢**

Doubletree Clevis



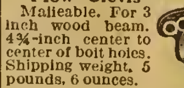
Opening, 2 inches. Length, 4½ inches. Weight, 1¼ pound.
87 C 8610—.......... **16¢**
87 C 8611—Opening, 2½ inches. Length, 6 inches. Weight, 1¾ pounds...**22¢**

Swivel End Clevis



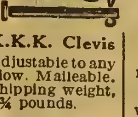
Adjustable to any plow clevis; malleable. Shipping weight, 1 pound.
87 C 8615—.......... **13¢**

Plow Clevis



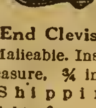
Malleable. For 3 inch wood beam. 4¾-inch center to center of bolt holes. Shipping weight, 5 pounds, 6 ounces.
87 C 8625—..........**50¢**
87 C 8580—⅞-inch beam, 3⅜-inch steel center to center beam holes. 11 holes in cross clevis. Shipping weight, 5 pounds.
..........**53¢**

K.K.K. Clevis



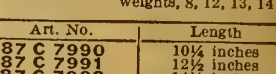
Adjustable to any plow. Malleable. Shipping weight, 1¾ pounds.
87 C 8582—.........**20¢**

End Clevis



Malleable. Inside measure, ¾ inch. Shipping weight, 6 ounces.
87 C 8600—............**8¢**

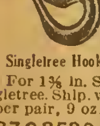
9¢ Steel Side Braces



Diameter of 87 C 7990 is 7/16 inches. Others are ½-inch. Shipping weights, 8, 12, 13, 14 ounces.

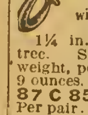
Art. No.	Length	Each
87 C 7990	10¼ inches	9¢
87 C 7991	12½ inches	10¢
87 C 7992	14½ inches	11¢
87 C 7993	15½ inches	12¢

Singletree Hooks



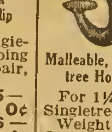
For 1⅜ in. Singletree. Ship. wt., per pair, 9 oz.
87 C 8520—
Per pair... **10¢**

Drop Hook with Clip



1¼ in. Singletree. Shipping weight, per pair, 9 ounces.
87 C 8525—
Per pair... **10¢**
87 C 8526—
Size, 1⅜-inch.
Per pair....**11¢**

Malleable, Singletree Hooks



For 1¼-inch Singletree. Weight, 9 oz.
87 C 8530
Per pair..**10¢**

Wagon Tongue Bolts

Length, 24 inches. Diameter, ⅝ inches. Shipping weight, 2¼ pounds.
87 C 8078............................**17¢**

Wagon Box Edge Iron

Punched and countersunk; width, ⅞ inch; length, 12 feet. Ship. wt., strip, 3½ pounds.
187 C 7995..**25¢**

Steel Wagon Box Strap Bolts

The set consists of 8 bolts and nuts.

Article Number	Lgth.	Ship. Wt.	Diam. of Screw	Price per Set
87 C 7985	10 in.	4 lbs.	½ inch	$ .66
87 C 7986	12 in.	4¾ lbs.	½ inch	.74
87 C 7987	14 in.	5 lbs.	½ inch	.80
87 C 7988	16 in.	7¼ lbs.	9/16 inch	.92
87 C 7989	18 in.	9¼ lbs.	⅝ inch	1.10

Singletree Straps and Hooks

Shipping weight, per set for 1 singletree 1¾ pounds.
87 C 7935....**20¢**
87 C 7936—Singletree Strap only..**7¢**
87 C 7937—Singletree Hook only...**4¢**

Welded Center Clips

For 2 to 3-inch Singletree.
Size, steel in round part, ½ inch. Ship. weight, 12 ounces.
87 C 7915... **8¢**
87 C 7916—
Size, steel in round part, ⅝ inch....**12¢**

Center Clips

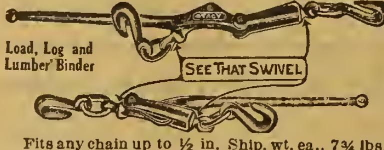
For 2 to 3-inch singletrees. Steel ring for whiffletree. Weights, 11, 13, 17 ounces. Iron in link, ½ inch.
87 C 7920.......**13¢**
87 C 7921—9/16-inch.
..................**15¢**
87 C 7922—⅝-inch.
..................**17¢**

Wagon Wrench

Steel. Shipping weight, 1½ pounds.

Art. No.	Size	Each
87 C 7965	2⅛	17¢
87 C 7966	2¼	18¢
87 C 7967	2½	19¢
87 C 7968	2¾	20¢

Load, Log and Lumber Binder



Fits any chain up to ½ in. Ship. wt. ea., 7¾ lbs.
187 C 8800—Load fastener. Each....**$1.85**
Per pair.................................. **3.65**
187 C 8802—Same Style as 187C8800. Wt. each 12½ pounds. Jumbo Pattern. Each....**$3.25**
Per pair................................ **6.40**

Spoke Holder with Rivets

87 C 8340—
¾ inch. Dozen.....**75¢**
87 C 8341—⅞ inch.
Dozen..............**77¢**
87 C 8342—1 inch.
Dozen..............**90¢**
87 C 8343—1⅛ inch.
Dozen..............**92¢**

Harrow Hook

Malleable. Opening in hook, ⅜ inch; entire length 3⅞ inches; square hole 7/16 inch. Shipping weight, 8 ounces.
87 C 8660.......**8¢**

Malleable Neckyoke Ring

Inside small end ferrule, 1¼ inches. Ring 3 by ⅜ inches. Shipping weight, 7 ounces.
87 C 7910...........**11¢**
87 C 7911—Ferrule, 1⅜ inches. Ring, 3 by ⅜ inches. Ship. weight, 8 ounces...**12¢**
87 C 7912—Ferrule, 1½ inches. Ring, 3x⅞ inches. Ship. weight, 9 ounces.. **13¢**

Hay and Hog Rack Plate

Steel, length, 12 inches. Shipping weight, per pair, 6 pounds.
87 C 8765—
Per pair.........**65¢**

Doubletree Evener Plate

Steel, Width, 1¾ inches. Length, 8 inches. Fits any doubletree. Shipping weight, 1 pound.
87 C 7900.............**17¢**

Steel Box Rods

⅜ inch size. Shipping weight, 1½ pounds.
187 C 7978—
Length, 3 feet, 3 inches.
..............**14¢**
187 C 7979—
Length, 3 feet 7 inches.
..............**16¢**

Wagon Rub Iron

16¢

Malleable. Length, 7¼ inches. Width, 4 inches. Weight, each, 1 pound.
87 C 8636—Each.**16¢**
87 C 8635—
Per pair...........**30¢**

Steel Neckyoke Center Rings

Steel Neckyoke Center Rings, 9/16 by 3¼ inches, 7/16-inch eyes. Ship. wt., 2¼ pounds.
87 C 7925—..........**30¢**

Straw Rack Irons

Shipping weight, each, 1½ pounds.
87 C 8380—
Each.......... **14¢**
87 C 8382—
8 for.......**$1.05**

Bow Staples

87C7940
Width, 1½ in. Wt., doz. 1 lb....**14¢**
87C7941
Width, 2 in. Wt., doz., 1 lb. 2 oz..**15¢**

Oil Tempered Spring For Wagon Seat

2 leaf. Holes drilled in both top and bottom leaves. Springs painted. Width, 1½ inches. Length, 26 inches. Shipping weight, per pair, 12 pounds.
487 C 9051—
Per pair..............**$1.45**

Patent Repair Links

Average ship. weight, 6 ounces.
87 C 8196—¼ inch..............**5¢**
87 C 8197—5/16 inch..............**6¢**
87 C 8198—⅜ inch..............**7¢**

Side Open Lap Links

½ inch; inside, 2½ inches. Shipping weight, 5 ounces.
87 C 8040—Pr.**8¢**
87 C 8041—⅝ in., inside, 3 in. Wt., 11 oz. Per pair....**14¢**

Stake Pockets

1½ by 2¾ inches. Wt., 13 ounces.
87 C 8645—
Each.........**10¢**
87 C 8646—Set of 8..........**75¢**

Box Fastener

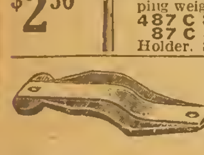
Shipping weight, per set, 1 pound 2 ounces.
87C8187
Per Set. **13¢**

King Bolts

Steel Wagon King Bolts. Weight, 2½, 3¼ and 4¼ pounds.
87 C 7960—⅞ inch.
................**20¢**
87 C 7961—1 inch.
................**28¢**
87 C 7962—1⅛ inch.
................**37¢**

87 C 8057—Tongue Chains, 5/16 inch. Steel. Length, 33 inches. Weight, per pair, 6 lbs....**72¢**

Wagon Umbrellas



$2.30

Six ribs; length, 38 inches; spread 68 inches. Covered with heavy buff colored drill. Holder not included. Shipping weight 8½ pounds.
487 C 8685.........**$2.30**
87 C 8686—Umbrella Holder. Ship. wt., 1 lb... **.63**

Hammer Straps

Heavy pattern. To attach doubletree to tongue. Of wrought steel. Ship. wt., 15 oz.
87 C 7951.... **13¢**

Anti-Spreader Chains

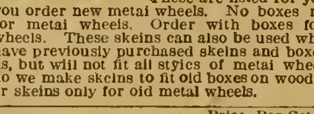
Anti-Spreader steel Chains, 3/16 inch thick. End bolts and nuts to attach.
87 C 8050—Length, 38 in. Ship. wt., 20 oz.**19¢**
87 C 8051—Length, 42 in. Ship. wt., 24 oz.**21¢**

Stay Chains

87 C 8058—Steel Stay Chains, 5/16 inch thick. Length, 26 in. Ship. wt., 4¼ lbs. Per pair.**50¢**

Fifth or Rolling Steel Chain. 5/16-inch thick. Steel. Length, 15 feet. Shipping weight, 14 pounds
87 C 8055..........................**$1.85**

Cast Iron Skeins and Boxes



These are listed for you when you order new metal wheels. No boxes required for metal wheels. Order with boxes for wood wheels. These skeins can also be used where you have previously purchased skeins and boxes from us, but will not fit all styles of metal wheels; nor do we make skeins to fit old boxes on wood wheels; or skeins only for old metal wheels.

Cast Skeins Number	Size Inches	Price, Per Set of 4 With Boxes	Price, Per Set of 4 Without Boxes
287C 8227	3 x 9	$ 7.00	$4.40
287C 8228	3¼x10	8.05	5.25
287C 8230	3½x11	10.10	6.15

Shipped from Factory in Central Illinois

Wagon Axles with Skeins

These axles with skeins and without boxes can be used when you order a new set of metal wheels. No boxes required for metal wheels. Can be used on wood wheels if ordered with boxes. Can also be used where you have previously purchased a set of skeins and boxes from us. Skeins will not fit all styles of metal wheels and will not fit wood wheels unless boxes are ordered with the skeins and can only be used under conditions described above.

We do not make skeins to fit old boxes on wood wheels or skeins only for old metal wheels.

Size Skeins Inches	Ship. Weight	Narrow Track Art. Number	Narrow Track Each	Add for Boxes
3 x 9	50 lbs.	287 C 9141	$5.00	$1.22
3¼x10	55 lbs.	287 C 9142	5.95	1.45
3½x11	60 lbs.	287 C 9143	6.90	1.70

Wide track, $2.75 extra.

Shipped from Factory in Central Illinois

Harness Hardware at a saving is listed on Page 661

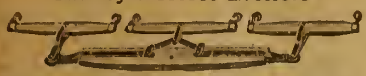
Our Leader Wagon Set

$3.65

Hickory Doubletree, 2x4 by 48 inches. Lock pin clevises and stay chain rings. Singletrees, 2⅝ by 36 inches. Steel back pull hooks and ferrules. Neckyoke, 2⅝ by 40 inches. Varnished. Shipping weight, per set, 34 pounds.

187 C 8888—Per set ... $3.65

Sattley 3-Horse Eveners



For plowing, harrowing, grading or for use on any implement without tongue. Thoroughly seasoned, straight grained oak, painted red. Steel hooks and clevises. Length of main evener, 44 inches; short evener, 30 inches. Singletrees, 27 inches. Shipping weight, 30 pounds.

289 C 1281—Per set ... $3.95

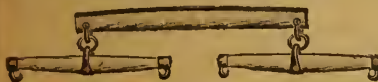
Shipped from Factory in Springfield, Illinois

Two-Horse Implement Set

Made of thoroughly air-dried oak, varnished. Length of singletrees, 27 inches. Length of doubletree, 34 inches. Shipping weight, 15 lbs.

187 C 1280—Per set ... $1.40

Ironed Hickory Plow Set



Suitable for heavy plowing, harrowing, grading and other farm work. Varnished. Flat doubletree; size, 1¾x3½x42 inches. Singletrees, 2¼ by 30. Shipping weight, 15 pounds.

187 C 8865—Per set ... $1.95

Doubletree Set

Hickory. Unpainted. Singletrees have hook ends. Malleable iron clips and center plate on evener. Shipping weights, per set, 8 and 10½ pounds.

187 C 7197—Buggy size. Per set ... $2.35

187 C 7198—Surrey and Spring Wagon size. Per set ... $2.90

Hickory Wagon Neckyoke

2⅝ inches center diameter. Length, 40 inches. Shipping weight, 5 pounds.

187 C 8925 ... 45¢

Cultivator Singletree

Hickory in the white. 1½x2⅝ by 26 inches. Shipping weight, 2 pounds.

187 C 9000 ... 15¢

Three-Horse Equalizer

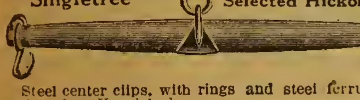
$5.25

Equalizes the pull among 3 horses when attached to any farm implement with tongue. Made of straight-grained oak. Painted. Main evener, 44 inches; short evener, 26 inches; singletrees, 34 inches. Shipping weight, 55 pounds.

187 C 8275—Per set ... $5.25

Ironed Singletree

Plow and Wagon Selected Hickory



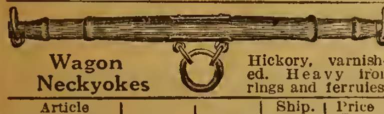
Steel center clips, with rings and steel ferrules and hooks. Varnished.

Article Number	Diam.	Lgth.	Ship. Weight	Price Each
187 C 8846	2⅜ in.	30 in.	4 lbs.	54¢
187 C 8847	2⅝ in.	36 in.	6 lbs.	78¢

Plow Singletree

Selected hickory, varnished, with steel straight center clip and steel end clips with hook. Diameter, 2⅜ inches; length, 28 inches. Ship. weight, 3 pounds.

187 C 8840 ... 45¢



Wagon Neckyokes

Hickory, varnished. Heavy iron rings and ferrules.

Article Number	Diam.	Length	Ship. Weight	Price Each
187 C 8857	2⅝ in.	40 in.	9 lbs.	$1.15

Ironed Hickory Doubletrees

Varnished. Malleable clevises. Wrought center plate. Size, 2 by 4 by 48 in. Ship. wt., 10 lbs.

187 C 8860 ... 95¢

187 C 8862 — Size, 1¾ by 3½ by 42 inches, without center plate. Ship. weight, 11 lbs. ... 75¢

Wagon Stretcher Chain

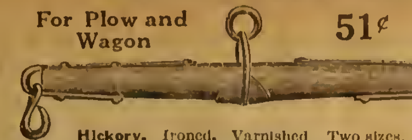
For hitching on front end of wagon tongue. Keeps doubletree balanced correctly. Entire length end to end when stretched, 60 inches. Made of high-grade steel, 5/16-inch diameter. Shipping weight, 5 pounds 10 ounces.

87 C 8059 ... 80¢

Strap End Singletrees

For Plow and Wagon

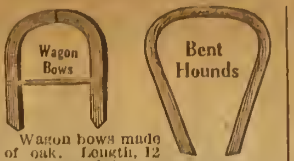
51¢



Hickory. Ironed. Varnished. Two sizes.

187 C 8851 — Length, 28 inches. Diameter of wood, 2⅜ inches. Shipping weight, 4 pounds ... 51¢

187 C 8850 — Length, 36 inches. Diameter of wood, 2⅝ inches Shipping weight, 7 pounds ... 80¢



Wagon bows made of oak. Length, 12 feet; width, 1⅞ inches; thickness ½ inch. Five piece set. Ship. wt., 15 lbs.

187 C 8725—Per set ... $1.90

187 C 8720—Oak hounds. Width, 3 inches. Depth, 2 inches. Narrow Track. Shipping weight, 20 pounds ... $1.80

Automatic Trip Jack for Autos or Trucks

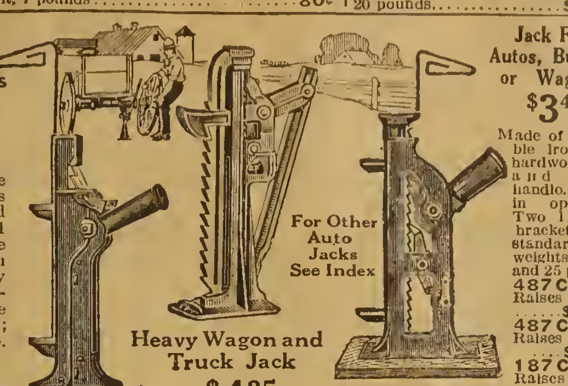
$6.35

10-Ton Capacity

Has Two Lifting Brackets

One stroke of the lever raises or lowers 1 inch. Weight raised from 2 inches to 31 inches above the ground. Weight can be lowered notch by notch, or dropped instantly. Malleable iron. Wood handle; length, 28 in. Ship. weight, 30 pounds.

187 C 8565— ... $6.35



For Other Auto Jacks See Index

Heavy Wagon and Truck Jack

$4.25

The adjustable foot which operates on a crane fitted with cogs overhanging the main support makes the Jack adaptable for lifting to any height within a radius of 5 inches of the base to within 5 inches of the top when main standard is raised to its limit.

The handles are steel, will not come off and yet can be folded into a small space. Standard is steel with machine cut teeth. Height standard lowered, 21 inches. Raises 10 inches. Ship. wt., 31 lbs.

187 C 8595 — Jack for 3-ton trucks ... $4.25

Jack For Autos, Buggies or Wagons

$3.40

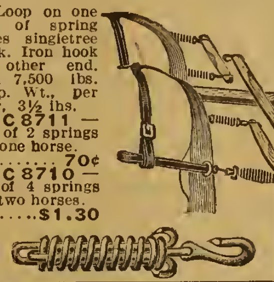
Made of malleable iron, with hardwood base and wood handle. Simple in operation. Two lifting brackets on standard. Ship. weights, 10, 14 and 25 pounds.

487 C 8560 Raises 2 tons. ... $3.40

487 C 8561 Raises 4 tons. ... $4.25

187 C 8562 Raises 8 tons. ... $6.50

Superior Trace Springs



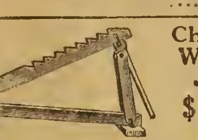
Loop on one end of spring takes singletree hook. Iron hook on other end. Pull 7,500 lbs. Ship. Wt., per pair, 3½ lbs.

87 C 8711 — Set of 2 springs for one horse. ... 70¢

87 C 8710 — Set of 4 springs for two horses. ... $1.30

Chicago Wagon Jack

$1.50



Hardwood with steel braces. Provided with a wheel in front. Capacity, 2 tons. Ship. wt., 8 pounds.

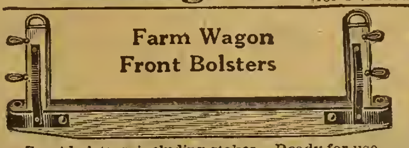
187 C 8555 ... $1.50

Side Board Cleats

For wagon boxes. Hardwood. Size, 1¾ by 18 inches. Shipping weight, per dozen, 7 pounds.

487 C 8960—Per dozen ... 96¢

Farm Wagon Front Bolsters



Front bolsters, including stakes. Ready for use. Made of oak. Ironing consists of full length plate on top of bolster, and heavy wear plate on under side. Stakes ironed on both sides, and braced; four stake rings. Height of stakes, 12 inches.

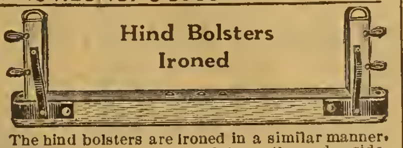
38-Inch Front Bolsters.

Article No.	Size	Ship. Wt.	Each
187 C 8820	3 in.	23 lbs.	$3.65
187 C 8821	3¼ in.	28 lbs.	4.15
187 C 8822	3½ in.	33 lbs.	4.55

42-Inch Front Bolsters. Shipped from Factory in Southern Illinois

Article No.	Size	Ship. Wt.	Each
287 C 8823	3 in.	25 lbs.	$3.90
287 C 8824	3¼ in.	30 lbs.	4.25
287 C 8825	3½ in.	35 lbs.	4.60

Hind Bolsters Ironed



The hind bolsters are ironed in a similar manner, except that they have no plate on the under side. Stakes, height, 12 inches. Made in narrow track, 38 inches; or wide track, 42 inches between stakes.

38-Inch Hind Bolsters

Article No.	Size	Ship. Wt.	Each
187 C 8826	3 in.	25 lbs.	$2.95
187 C 8827	3¼ in.	28 lbs.	3.80
187 C 8828	3½ in.	32 lbs.	4.20

42-Inch Hind Bolsters Shipped from Factory in Southern Illinois

Article No.	Size	Ship. Wt.	Each
287 C 8829	3 in.	25 lbs.	$3.10
287 C 8830	3¼ in.	30 lbs.	3.85
287 C 8831	3½ in.	35 lbs.	4.40

Finished Oak Wagon Tongues

Select seasoned stock. Ship. wts., 40 and 50 lbs. **Shipped from Factory in Southern Illinois.**

287 C 8900—Size, 3½ inches by 11 feet, 6 inches ... $2.15

287 C 8901—Size, 4 inches by 11 feet, 6 inches ... 2.85

Cultivator Poles

Select, seasoned yellow pine. Ship. wts. 20 and 25 lbs. **Shipped from Factory in Southern Illinois.**

287 C 8902—Size, 2¾ inches by 12 feet long ... $1.25

287 C 8903—Size, 3 inches by 12 feet long ... 1.35

Wagon Bolster—Front

Selected oak. Finished ready for stake mortises. Weight, 14 to 22 pounds.

Narrow Track Shipped from Stock
Wide Track from Factory in Illinois

Size Inches	Narrow TrackNo.	Price Each	Wide TrackNo.	Price Each
3 x4	187 C 8986	$ .90	287 C 8989	$ .95
3¼x4¼	187 C 8987	.98	287 C 8990	1.12
3½x4½	187 C 8988	1.30	287 C 8991	1.37

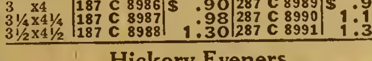
Wagon Bolster—Hind

Selected oak. Finished ready for stake mortises. Shipping weights, 14 to 22 pounds.

Narrow Track Shipped from Stock
Wide Track from Factory in Illinois

Size Inches	Narrow TrackNo.	Price Each	Wide Track No.	Price Each
3 x4	187 C 8980	$ .92	287 C 8983	$ .97
3¼x4¼	187 C 8981	.99	287 C 8984	1.15
3½x4½	187 C 8982	1.32	287 C 8985	1.40

Hickory Eveners



Two horse eveners. Not ironed. Dressed white.

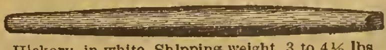
Article Number	Size Inches	Length	Ship. Weight	Price Each
187 C 8995	2 x4	4 ft.	9 lbs.	55¢
187 C 8998	1⅞x3½	3 ft. 6 in.	5 lbs.	40¢

Four Horse Evener

Hickory 4-horse evener, selected stock, size about 2x5 by 72 inches. Ship. wt., about 20 lbs.

187 C 8935 ... $1.15

Oval Plow and Wagon Singletrees



Hickory, in white. Shipping weight. 3 to 4½ lbs.

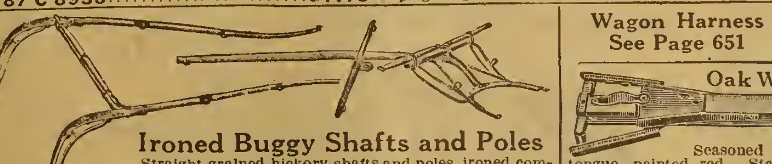
187 C 8930—2⅜ in. center. 30 in. long ... 15¢

187 C 8931—2⅝ in. center. 36 in. long ... 27¢

187 C 8932—2¾ in. center. 36 in. long ... 34¢

Hickory Oval Plow Doubletree

187 C 8950—Size, 3 by 36 inches long. Shipping weight, about 5 pounds ... 39¢



Ironed Buggy Shafts and Poles

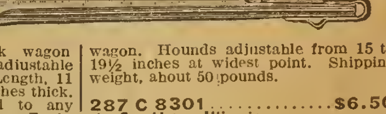
Straight grained hickory shafts and poles, ironed complete. Shafts size, 1⅜ by 2 inches, with sword end singletrees. Painted shafts furnished with leather ends. Poles size, 1¾ by 2¼ inches, furnished with neckyoke, doubletrees, singletrees and stay straps. Common 1-inch eyes with ¼-inch holes unless described with Bradley eyes. Ship. wts., shafts, 23 lbs.; poles, 35 lbs. **Shipped from Factory in Western Ohio.**

Article No.	Item	Color	Eyes	Price, Each	
287 C 7180	Shafts	Unpainted	Common	Pair	$5.10
287 C 7182	Shafts	Dark Green	Common	Pair	6.15
287 C 7184	Shafts	Dark Green	Bradley	Pair	6.40
287 C 7190	Pole	Unpainted	Common	Each	9.10
287 C 7192	Pole	Green	Common	Each	10.15
287 C 7194	Pole	Green	Bradley	Each	10.35

287 C 7195—Pole for Surrey or Spring Wagon. Unpainted. Plain eyes ... $10.90

Wagon Harness See Page 651

Oak Wagon Tongue With Adjustable Hound

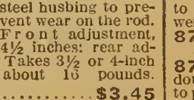


Seasoned oak wagon tongue, painted red. Steel adjustable hounds. Steel tongue cap. Length, 11 feet 6 inches. Tongue, 3½ inches thick. Quickly and easily attached to any wagon. Hounds adjustable from 15 to 19½ inches at widest point. Shipping weight, about 50 pounds.

287 C 8301 ... $6.50

Shipped from Factory in Southern Illinois

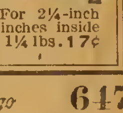
Steel Adjustable Wagon Hound



Bars have large steel bushing to prevent wear on the rod. Front adjustment, from 10½ to 14½ inches; rear adjustment, 12½ to 20 inches. Takes 3½ or 4-inch tongue. Shipping weight, about 16 pounds.

187 C 8310 ... $3.45

Steel Screw Pin Clevis



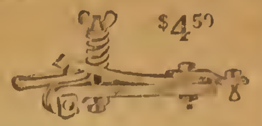
For 2-inch doubletree, 3½ inches inside to pin. Ship. weight, 1 lb.

87 C 7902 ... 14¢

87 C 7903—For 2¼-inch doubletree, 4¾ inches inside to pin. Ship. wt., 1¼ lbs. 17¢

Safety Tractor Plow Hitch

$4.50



The object of this Safety Hitch: When a Tractor is connected to a Tractor Plow or other farm implement this attachment permits the automatic release of that connection when the plow strikes a root, a stone or other heavy obstruction. This will prevent serious damage to the plow or implement being used.

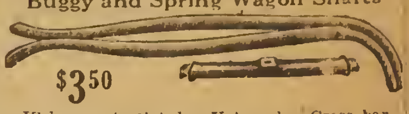
Guaranteed not to release while plowing in any kind of soil.

Made of malleable iron with steel release spring.

87 C 1084—For use with 1 and 2 bottom plows. Shipping weight 5 pounds ... $4.50

87 C 1085—For use with 3 and 4 bottom plows. Shipping weight, 7 pounds ... $4.85

Buggy and Spring Wagon Shafts



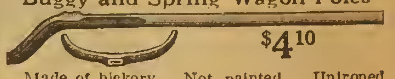
$3.50

Hickory, not painted. Unironed. Cross bar and singletree included. Holes mortised. Medium bend heel. Shipping weights, per pair, 12 and 15 pound.

187 C 8455—Size 1⅜ by 1⅞ in. Pair. $3.50

187 C 8457—Size 1½ by 2¼ in. Pair. 4.80

Buggy and Spring Wagon Poles

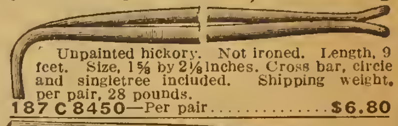


$4.10

Made of hickory. Not painted. Unironed. Includes finished circle. Double bend.

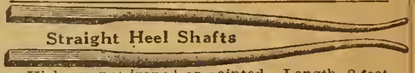
Art. Number	Size In.	Weight	Price
187 C 8465	1¾x2½	14 lbs.	$4.10
187 C 8466	2 x2¾	17 lbs.	5.40

Finished Cart Shafts, Extra Long



Unpainted hickory. Not ironed. Length, 9 feet. Size, 1⅝ by 2⅛ inches. Cross bar, circle and singletree included. Shipping weight, per pair, 28 pounds.

187 C 8450—Per pair ... $6.80

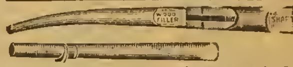


Straight Heel Shafts

Hickory, not ironed or painted. Length, 8 feet, 6 inches. Size, 1¾ by 2½ inches. Shipping weight, per pair, 28 pounds.

187 C 8460—Per pair ... $5.00

Shaft Ends



87 C 8070—Buggy size. Length, 29 inches. Japanned, nickeled tips. Shipping weight, 1¾ pounds ... 38¢

87 C 8071—Surrey size. Length, 28 inches. Shipping weight, 2 pounds ... 47¢

87 C 8072—Pole size, length, 24 inches; opening, 1⅞ inches. Ship. wt., 3 pounds ... 82¢

Finished Hickory Wagon Axles

Full size, tough stock. Wide or narrow track.

Narrow Track

Article Number	Shipping Weight	Skein to Fit	Price Each
187 C 8917	16½ lbs.	3 in.	$1.85
187 C 8918	21 lbs.	3¼ in.	2.20
187 C 8919	24 lbs.	3½ in.	2.35

Wide Track Shipped from Factory in Southern Illinois

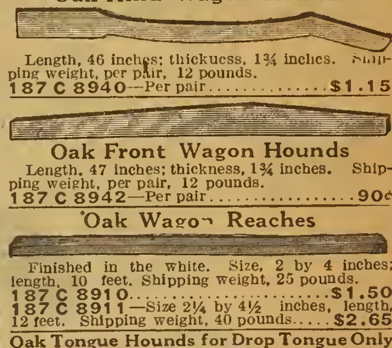
Article Number	Shipping Weight	Skein to Fit	Price Each
287 C 8922	19 lbs.	3 in.	$1.75
287 C 8923	22 lbs.	3¼ in.	2.10
287 C 8924	27½ lbs.	3½ in.	2.30

Oak Wagon Sand Boards

Narrow Track Shipped from Stock
Wide Track from Factory in Illinois

Size Inches	Wt. Lbs.	Narrow TrackNo.	Price Each	Wide Track No.	Price Each
2¾x3	8	187 C 8965	$ .75	287 C 8968	$ .80
3 x3	10	187 C 8966	.90	287 C 8969	.93
3½x3	12	187 C 8967	1.15	287 C 8970	1.15

Oak Hind Wagon Hounds



Length, 46 inches; thickness, 1¾ inches. Shipping weight, per pair, 12 pounds.

187 C 8940—Per pair ... $1.15

Oak Front Wagon Hounds

Length, 47 inches; thickness, 1¾ inches. Shipping weight, per pair, 12 pounds.

187 C 8942—Per pair ... 90¢

Oak Wagon Reaches

Finished in the white. Size, 2 by 4 inches; length, 10 feet. Shipping weight, 25 pounds.

187 C 8910 ... $1.50

187 C 8911—Size 2¼ by 4½ inches, length, 12 feet. Shipping weight, 40 pounds ... $2.65

Oak Tongue Hounds for Drop Tongue Only

Size; about 1¾ by 2½ by 32 inches. Shipping weight, pair, 6 pounds.

187 C 8945—Per pair ... 80¢

Whitewater Wood Wheel Farm Truck

$56.50

Specifications

Capacity 4,000 pounds.
Gear Angle steel, round front/hound with drop tongue. Axles, sandboards, bolsters, reach, tongue and other wood parts, select hardwood; well ironed and braced.
Skeins—3¼ by 10 inches, cast, standard pattern.
Wheels—Height, 36 and 42 inches. Oak hubs, spokes, and rims.
Tires—3 by ⅜ inches.
Track—Narrow, 4 feet 8 inches, center to center of tires.
Painting—Gear and wheels, orange striped.
Shipping weight, about 650 pounds.
287 C 7612 .... $56.50
For Wide Track, 5-foot gear, add 2.00
Doubletree, Singletrees and Neckyoke 4.40

Shipped from Factory in Western Illinois

Whitewater Metal Wheel Farm Truck

$39.50

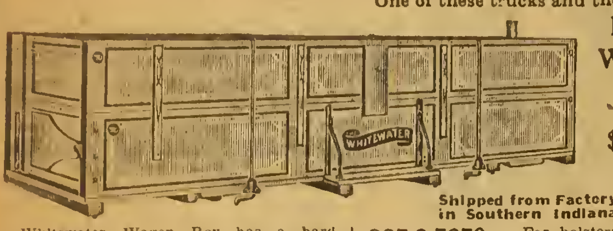
Specifications

Capacity—4,000 pounds.
Gear—Angle steel, round front hound with drop tongue. Axles, sandboards, bolsters, and other wood parts, select hardwood; well ironed and braced.
Skeins—3¼ by 10 inches, cast, standard pattern.
Tires—4 by ⅜ inches, grooved.
Track—Narrow; 4 feet 8 inches.
Painting—Gears, red. Wheels, black.

A very convenient and handy low down farm truck, easily loaded. Well made throughout of first class material; strong and easy running. Cannot be beaten for all around hard rough work.
287 C 7622—With 28 and 32-inch wheels. Shipping weight, about 550 pounds.. $39.50
For wide Track, 5-foot gear, add 2.00
For Doubletree, Singletrees and Neckyoke, add $4.40

One of these trucks and the wagon box below will make you a very satisfactory low priced wagon

Farm Wagon Box



$21.00

Shipped from Factory in Southern Indiana

Whitewater Wagon Box has a hard pine floor and gumwood sides and ends; Comstock patent end gate. Painted green and ornamented. Size, 10½ feet long by 26 inches high.
287 C 7675 — For bolsters 38 in. between stakes. Including anti-spreader chain, box fasteners and grain cleats. Ship. wt., about 300 lbs. $21.00

287 C 7679 — For bolsters 42 inches between stakes. Including anti-spreader chain, box fasteners and grain cleats. Ship. wt., about 300 lbs. $21.90
For 10-inch Tip Top Box, add..... 5.25
For Spring Seat with High Back, add 6.35

Square Deal Buggy

$79.95

An easy riding, good looking Buggy that will give you splendid service. Built right, of carefully selected materials and finely finished and upholstered.
Gear—1 5/16-inch arch axles, cap cemented and clipped to axle with extra clips, select hickory reaches ironed full length.
Body—Hardwood sills and frame. Width, 24 inches, length, 56 inches. Seat, 32 inches wide.
Wheels—Sarven patent. Select hickory. ⅞-inch screwed rims. Steel tires bolted between spokes. Height, front, 39 inches; rear, 43 inches.
Upholstering—Beautifully upholstered with good quality artificial leather. Will trim in green cloth if so ordered. Full spring back and cushion. Padded seat ends.
Painting—Body and seat, black, piano finish; gear, Brewster green, neatly striped.
Shafts—Select hickory. Triple-braced with leather straps and points. Bradley couplings.
Sundries—Large fancy dash. Large storm apron. Side curtains and washers. Full rubber mat.
Top—Four-Bow, auto skeleton style. Covered with fine auto-top material.
Track—4 feet, 8 inches. Shipping weight, about 550 pounds.

287 C 7025—"Our Leader" Buggy as described. $79.95
287 C 7029—"Our Leader" Buggy, wide track, 5 feet 2 inches. Built on special orders only. Upholstered in leatherwove. Will trim in green cloth if so ordered $81.25

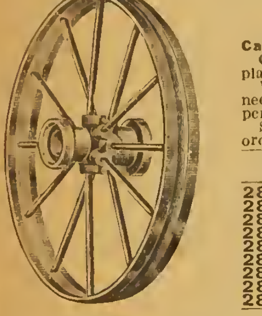
Square Deal Wide Seat Buggies

Square Deal Buggy, Wide Seat, Wide Body
287 C 7030—Same Style as 287 C 7025 but with body 26 inches wide and seat 34¾ inches wide. Wheels, 1 inch. Narrow track, 4 feet 8 inches. Weight, 600 pounds. Crated. $89.95
287 C 7033—Same as 287 C 7030 but wide track, 5 feet 2 inches. Built on special order only $91.20

Square Deal Heavy Concord Buggy
287 C 7035—Body, 28 inches wide, 58 inches long. Seat, 35 inches wide. Wheels, 1 inch. Axle, 1 1/16 inches. Concord springs with equalizers. Weight, crated about 610 pounds. Narrow track, 4 feet 8 inches. $92.50
287 C 7036—Same as 287 C 7035 but wide track, 5 feet 2 inches. Built on special order only..... $93.75

All Buggies shipped from Factory in Indiana

Durabilt Metal Wheels



For Farm Wagons and Trucks

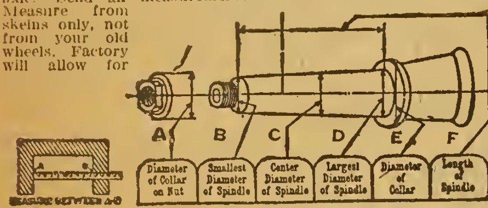
Capacity—4,000 pounds per set of four.
Grooved tires are stronger and are shipped unless the plain tires are ordered.
Wheels are made specially to order; therefore it is absolutely necessary that you give correct measurements. Prices are per wheel.
Shipments usually made in 7 to 12 days after receipt of order.

Article Number	Height Inches	Weight Per Wheel, Lbs.	Tire 3x⅜	Tire 4x⅜	Tire 5x⅜
287 C 9100	24	47 to 55	$3.25	$3.69	$4.14
287 C 9101	26	52 to 64	3.40	3.85	4.31
287 C 9102	28	53 to 71	3.60	4.10	4.59
287 C 9103	30	54 to 74	3.75	4.30	4.87
287 C 9104	32	57 to 80	4.10	4.70	5.32
287 C 9105	34	64 to 84	4.25	4.92	5.60
287 C 9106	36	66 to 90	4.64	5.32	5.99
287 C 9107	38	70 to 93	4.80	5.53	6.27
287 C 9108	40	73 to 98	5.26	6.00	6.72

Article Number	Height	Weight Per Wheel	Tire 3x½	Tire 4x½	Tire 5x½
287 C 9125	24 inches	55 to 74 pounds	$3.72	$4.30	$4.93
287 C 9126	26 inches	60 to 82 pounds	3.88	4.52	5.20
287 C 9127	28 inches	68 to 90 pounds	4.13	4.80	5.54
287 C 9128	30 inches	73 to 98 pounds	4.33	5.10	5.88
287 C 9129	32 inches	78 to 107 pounds	4.73	5.53	6.38
287 C 9130	34 inches	80 to 112 pounds	4.95	5.80	6.72
287 C 9131	36 inches	81 to 118 pounds	5.35	6.27	7.22
287 C 9132	38 inches	87 to 124 pounds	5.56	6.53	7.56
287 C 9133	40 inches	101 to 135 pounds	6.03	7.05	8.12
287 C 9134	42 inches	105 to 141 pounds	6.23	7.33	8.45
287 C 9135	44 inches	115 to 155 pounds	6.73	7.99	9.07

How to Order and Measure Steel Wheels

If you send us correct measurements we guarantee wheels to fit perfectly. The number and size of spokes, also hub pattern, vary according to size of skein or axle. Send all measurements indicated. Measure from skeins only, not from your old wheels. Factory will allow for play. If you have no calipers cut a slot in cardboard as shown in illustration to fit over part to be measured, then measure across slot as shown. Do not send circumference measurements. Measure from side to side of spindle, not from top to bottom. Measure both front and rear axles.



We recommend ⅜-inch tires for general farm use and ½-inch for gravel or stone roads.

Shipped from Factory in Central Illinois

Special Speedster Model Body

$47.50

Shipped from Factory in Northern Illinois

Illustration above shows the Special Speedster model with underslung parts and fenders attached. These underslung parts are supplied only at an extra charge; you can use the body without them because it will fit your Ford Chassis with the regular Ford fenders and running boards.
This model is equipped with special 20-gallon exposed tank as illustrated and has one door on the right side and a roomy compartment behind with hinged cover.

287 C 8029—Special Speedster model without top or windshield and without underslung parts. Shipping weight, 250 pounds. $47.50
287 C 8030—Special Speedster model without underslung parts, but with top and windshield. Shipping weight, 275 pounds $79.95
287 C 8046—Special Speedster model with underslung parts, but without top and windshield. Shipping weight, 400 pounds $61.50
287 C 8047—Special Speedster model with underslung parts, and with top and windshield. Shipping weight, 425 pounds $93.50

Light Truck Body for Ford Roadsters

$8.25

A convenient body that quickly converts a Ford Roadster into a light truck. Attached by simply removing the form bolts that hold the turtle back on the frame. Place the demountable body on and replace the bolts. Made of heavy hardwood with a 1-inch floor. Depth, 8 inches. Ironed on corners. Drop endgate on stout hinges; 4-inch flare boards, attached by iron box straps bolted to panel and bottom of body. Painted a glossy black. Weight, crated for shipment, about 150 pounds.

287 C 7160—Size, 33 by 58 inches. $8.25
Shipped from Factory in Wisconsin

Favorite Storm Front

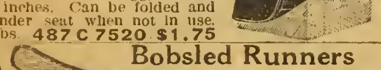
Makes a cozy interior of your buggy. Waterproof, black oiled drill. Fits over top of front bow with buckle and strap to adjust on props. Will fit all buggies 42 inches or less across bows. Adjustable straps to attach to dash, leather lined harness holes, celluloid window 11 by 19 inches. Shipping weight, 2¾ pounds.
487 C 7525 — $3.25

Storm King Apron

Waterproof, black oiled drill. Will not crack or peel. Size, 50 by 54 inches. Adjustable to buggy dashes 22 to 28 inches. Can be folded and placed under seat when not in use. Wt., 3½ lbs. **487 C 7520 $1.75**

Bobsled Runners

$2.80

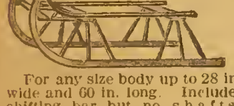


Ironed complete with heavy cast shoe. Fits any make of sled. Bolt holes not bored. You can quickly repair your old sled so it will stand hard, rough usage.

Art. No.	Trade Size	Actual Size	Wt. Lbs.	Each
287 C 7415	2 x5 in.x5 ft.	1⅞x5 in.x4 ft. 7 in.	30	$2.80
287 C 7416	2 x6 in.x6 ft.	1⅞x6 in.x5 ft. 9 in.	41	3.35
287 C 7417	2 x6 in.x7 ft.	1⅞x6 in.x6 ft. 7½ in.	51	3.75
287 C 7418	2½ x6 in.x7 ft.	2½ x6 in.x6 ft. 7½ in.	75	5.40

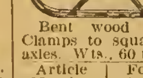
Shipped from Factory in Saint Paul, Minnesota

Sleigh Gear



For any size body up to 28 in. wide and 60 in. long. Includes shifting bar but no shafts. Height, 16 in. Painted dark Brewster green. Shipped flat. Shipping weight, 60 pounds.
287 C 7555 .... $6.95

Runner Attachments



Bent wood and iron. Clamps to square part of axles. Wts., 60 to 90 lbs.

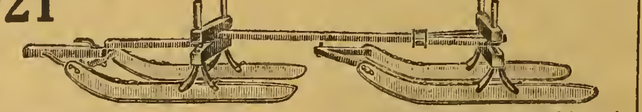
Article Number	For Axle	Set of 4
287 C 7560	1 in.	$5.25
287 C 7561	1⅛ in.	6.25

287 C 7564 — Shifting bars to use with above 85¢

Shipped from Factory in Central Ohio

Mandt Bobsled with Hound

$21.95



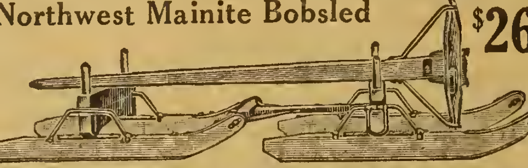
Hardwood throughout. Nicely painted. Tongue heavily braced and ironed. Heavy cast iron shoes. Long reach. Sled can be lengthened or shortened. Runners interchangeable. Fitted with anti-tip connected to pole, which holds beams in right position always. Perfect oscillation. Capacity, 3 tons.

Article Number	Runners	Track	Bolster	Shipping Weight	Price Each
287 C 7410	2 in.x5 in.x5 ft.	38 in.	38 in.	350 lbs.	$21.95
287 C 7412	2 in.x5 in.x6 ft.	38 in.	38 in.	375 lbs.	23.50

Shipped from Factory in Saint Paul, Minnesota, or Central Ohio

Northwest Mainite Bobsled

$26.30

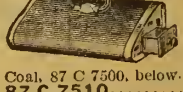


This Sled is especially adapted to conditions in the Northwest. Runners reinforced by patented channel irons around nose and on top under beam. Irons well made of high carbon flat steel, ½ inch thick on edge. Painted and striped. Varnished. Well seasoned hardwood throughout. Pole well ironed.

Article Number	Runners	Track	Bolster	Shipping Weight	Price Each
287 C 7400	2 in. x 6 in. x 6 ft.	38 in.	38 in.	450 lbs.	$26.30
287 C 7401	2 in. x 6 in. x 6 ft.	56 in.	38 in.	475 lbs.	29.95
287 C 7402	2 in. x 6 in. x 7 ft.	38 in.	38 in.	500 lbs.	27.00
287 C 7403	2 in. x 6 in. x 7 ft.	56 in.	38 in.	550 lbs.	30.65
287 C 7404	2½ in. x 6 in. x 7 ft.	38 in.	38 in.	600 lbs.	34.50
287 C 7405	2½ in. x 6 in. x 7 ft.	56 in.	38 in.	650 lbs.	41.00

Extra for 42-inch Bolsters on 56-inch Track, $2.00
Shipped from Factory in Saint Paul, Minnesota

Carriage and Auto Heater



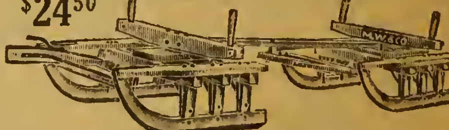
Extra heavy nickel plated with ventilators. Covered with a Brussels carpet. Asbestos lining prevents scorching robes, etc. Length, 14 inches, width, 7½ inches. Burns Coal, 87 C 7500, below. Shipping weight, about 6 pounds.
87 C 7510 .... $2.50

Coal for Heaters

Gives steady, uniform heat. Each cake will burn 12 to 15 hours. Weight, per box, 6¾ pounds.
87 C 7500—Per box of 1 dozen cakes .... 75¢

Sampson Wood Knee Bobsled

$24.50

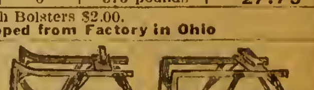


Ideal for farm work and general hauling. Painted and varnished. Tongue included. Bolster stakes 38 inches apart. Track, 38 inches. Length of runners, 5 feet. Length of cast shoes, 3 feet 3 inches. Size of runners, 1¾x2¾ inches. Size of beams, 2½ by 3 inches. Size of bolster, 3 by 3¾ inches. Size of raves, 1¼ by 6 inches. Capacity, small size, 2 tons; large size, 3 tons.

Article Number	Number of Knees	Approximate Weight	Price Each
287 C 7420	4	350 pounds	$24.50
287 C 7422	6	375 pounds	27.75

Extra for 42-inch Bolsters $2.00.
Shipped from Factory in Ohio

Spring Wagon Bobs

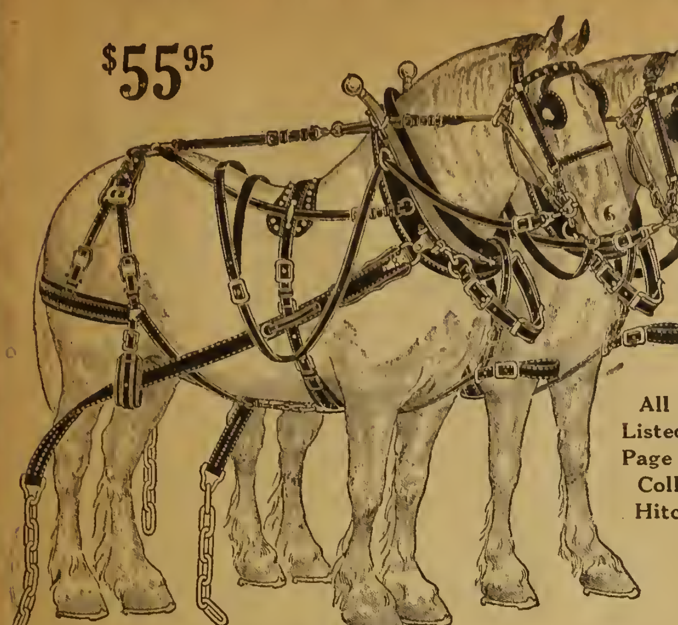


Painted red and fitted with shackles so any ordinary pole or shaft may be used. Oscillating rear bolster. Height of bobs, 21 inches. Length of runner, 3 feet, 1 inch. Track, 38 inches. Capacity, 1,500 pounds. Shipping weight, 100 lbs.
287 C 7550 .... $9.50
Shipped from Factory in Ohio

For work or driving, see our Sheep Lined Ulsters and Fur Coats on Page 276

Ward's Standard—Our Popular Breeching Harness

$55.95



All Harness Listed on This Page without Collars and Hitch Reins

595 C 200—Harness, with 1½-inch traces. Per set $55.95
595 C 201—Same as above except with 1¾-inch traces. Per set 57.90
For 1⅛-inch by 20-foot lines in place of regular, add, per set .... .50

Options for All Harness on This Page Except 595 C 200 and 595 C 201

If 95 C 756 style of trace is wanted with chain sewed in, add, per set $1.50
If long round reins and gag swivels are wanted on bridles in place of flat reins, add, per set $1.30
If check-up straps are wanted on bridles which do not show them, add, per set .... .70
If 1⅛-inch by 18-foot lines are wanted, add, per set .... .50
If 95 C 2048 all steel brass ball top bolt draft hames are wanted, add, per set 1.00
(Collars not included.)

It costs but little more to buy a good new set of harness at our reasonable prices than it does to patch up the old harness frequently. When you get your harness from us, you can be sure it will last. It is ***made to stand the hardest wear.*** We believe our Standard Breeching Harness is the best medium weight harness obtainable at the price. And remember our guarantee stands solidly behind every set purchased.

It is made in our own factory, and quality has not been sacrificed to make a low price, but economies have been possible in its manufacture because of Ward's large harness business, which enables you to buy it at a big saving. The strength and lasting qualities of the Standard Grade Harness will convince you that it is the utmost in harness value.

General Description of All Sets of Harness on This Page

Bridles—Heavy ⅞-inch check with nose band and bit strap, wide folded adjustable crown, doubled and stitched combination front and winker brace, sensible blinds, round reins with gag swivels, and check up straps.

Lines—1⅛-inch by 18 foot. Patent buckles and snaps.

Traces—Heavy 1½-inch by 6 foot, doubled and stitched, with wide safe in front end, jointed clip attachment for bolt hames, 6-link heel chain sewed in; 1¼-inch heavy billets, bellybands folded with layer.

Pads—4½ inches wide, doubled and stitched harness leather with solid brass side bridges, and brass spotted 1¼-inch reversed skirts.

Back and Hips—1⅛-inch back strap through to hame, with extra wear leather; 1⅛-inch hip straps made to reverse into breeching with solid brass patent buckles, wide leather safe.

Breeching—Heavy folded, with 1⅛-inch layer, without lead up tugs, 1⅛-inch heavy single reversed side straps, lazy straps with ⅞-inch billets and wide liner.

Breast Straps—Heavy 1½-inch by 4½ foot; with metal loops, snaps and slides.

Martingales—Heavy 1½-inch, doubled and stitched around front end, and with ⅞-inch collar straps.

Hames—95 C 2048 as shown on Page 660. All steel bolt style, with 1¾-inch brass ball top.

Hame Straps—1 by 21 inches for bottom, 1 by 27 inches for top.

Spread Straps—¾-inch, with wood rollers.

Trimming—Japanned, brass spots and brass buckles on hip and back straps and pad skirts.

For horses up to 1,400 pounds.

Shipping Weight

Each set of harness shown on this page, boxed ready for shipment, weighs about 75 lbs.

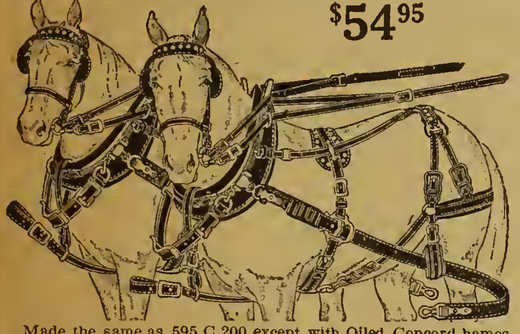
We Manufacture Our Own Harness

The fact that Ward's harness is manufactured in our own factory insures you of the highest grade of leather, the best workmanship and the lowest price that can be charged for harness of such high quality. The service of harness is determined by its good workmanship and thorough inspection of every piece of material used in its making. The durability of Ward's harness is proof of the careful and exacting methods employed in our factory. We feel that we are entitled to have you for a customer, because you are entitled to the best we can make.

$54.90

This harness made same in every way as 595 C 200 except with Oiled Concord Hame and 95 C 763 traces with chains clipped on. With 1½-inch traces.
595 C 204—Per set $54.90
595 C 205—Same as above except with 1¾-inch 3-row stitched traces. Per set $56.90
For 1⅛-inch by 20-foot lines, in place of regular, add, per set .... 50¢
(Collars not included.)

$54.95

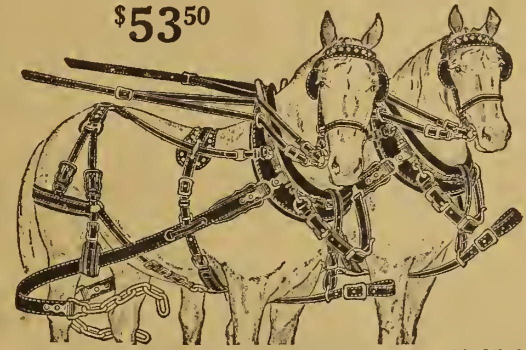


Made the same as 595 C 200 except with Oiled Concord hames, 3-loop hame tugs and buckle traces; 1-inch by 18-foot lines, flat reins, 1-inch back straps to hame, 1-inch hip straps made to buckle into breeching up tugs and without check-up straps. With 1½-inch traces.
595 C 231—Per set $54.95
595 C 232—Same as above except with 1¾-inch 3-row stitched traces. Per set 56.95
(Collars not included.)

$49.95

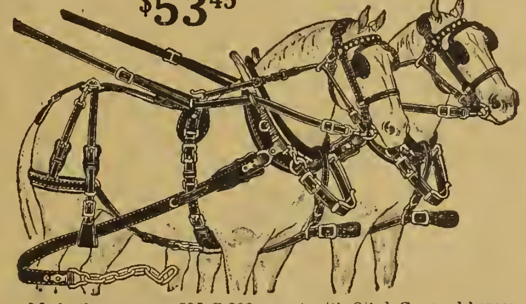
This harness made same as 595 C 200 except with oiled Concord hames, flat reins without check-up straps, 1-inch hip straps to buckle into breeching and 1-inch back and shoulder straps. Without back pads. With 95 C 763 1½-inch traces.
595 C 215—Per set $49.95
595 C 216—Same as above except with 1¾-inch traces, 3-row stitching. Per set $51.95
For 1⅛-inch by 18-foot lines in place of regular, add, per set .50
(Collars not included.)

$53.50



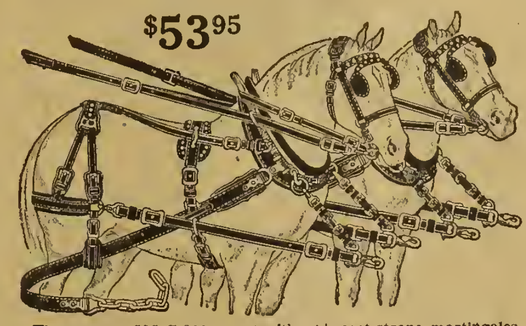
Harness is made the same as 595 C 200 except with Oiled Concord hame and 95 C 763 traces with chains clipped on, 1-inch back straps and 1-inch hip straps made to buckle into breeching, flat reins without check-up straps and 1-inch by 18-foot lines. With 1½-inch traces.
595 C 211—Per set $53.50
595 C 212—Same as above except with 1¾-inch 3-row stitched traces. Per set $54.95
(Collars not included.)

$53.45



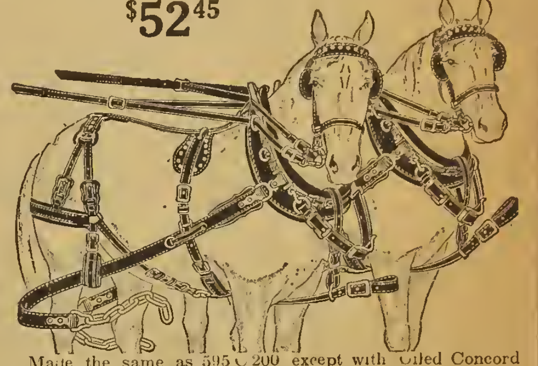
Made the same as 595 C 200 except with Oiled Concord hames, and 1-inch back strap to pad and with crupper, pad, hair-stuffed bottom, 1-inch hip straps and detachable breeching, 1-inch by 18-foot lines. With 95 C 763 1½ inch traces.
595 C 227—Per set $53.45
595 C 228—Same as above except with 1¾-inch 3-row stitched traces. Per set $54.95
For flexible metal tree pads, in place of regular, add, per set 1.00
(Collars not included.)

$53.95



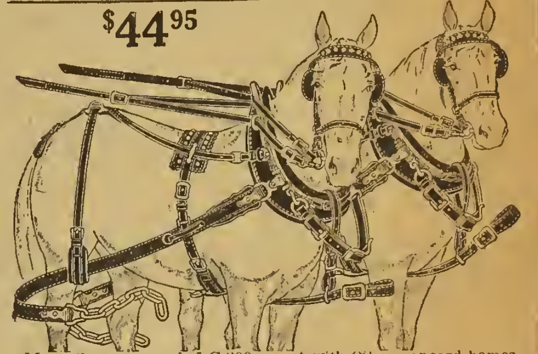
The same as 595 C 200 except without breast straps, martingales, breeching straps and check-up straps to buckle into breeching. Made with flat reins, heavy 1½-inch jockey or side backers. With 1½-inch traces.
595 C 223—Per set $53.95
595 C 224—Same as above except with 1¾-inch 3-row stitched traces. Per set $56.10
For 1⅛-inch by 18-foot lines in place of regular, add per set .50
(Collars not included.)

$52.45



Made the same as 595 C 200 except with Oiled Concord hame, and 95 C 763 traces, with chain clipped on, 1-inch hip straps and made to buckle in breeching up tugs, 1¼-inch single back strap to hame strap, 1-inch by 18-foot lines, flat reins and pads without check up straps. With 1½-inch traces.
595 C 219—Per set $52.45
595 C 220—Same as above except 1¾-inch 3-row stitched traces. Per set $53.95
(Collars not included.)

$44.95



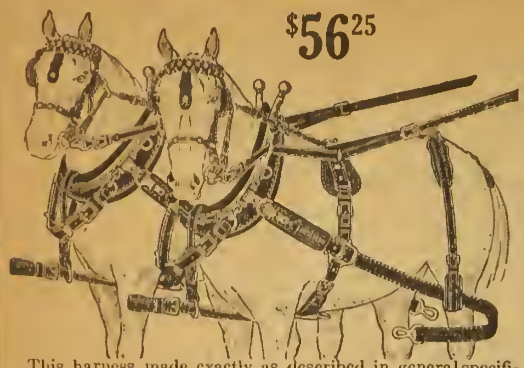
Made the same as 595 C 200 except with Oiled Concord hames, 95 C 763 traces with chains clipped on, 1-inch double back strap to hame, but without breeching, 1 inch by 18-foot lines, flat reins without check-up straps, and 1-inch hip straps with 1½-inch traces.
595 C 235—Per set $44.95
595 C 236—Same as above except 1¾-inch 3-row stitched traces. Per set $46.95
(Collars not included.)

$48.95

This harness made same as 595 C 200 except with oiled Concord hames, 95 C 763 traces with chains clipped on. 1-inch by 18-foot lines, flat reins without check-up straps, 1-inch back and hip straps to buckle into breeching without pads. With 1½-inch traces.
595 C 207—Per set $48.95
595 C 208—Same as above except 1¾-inch 3-row stitched traces. Per set $50.95
(Collars not included.)

Ward's Superior Pad Harness—Our Highest Grade

$56.25

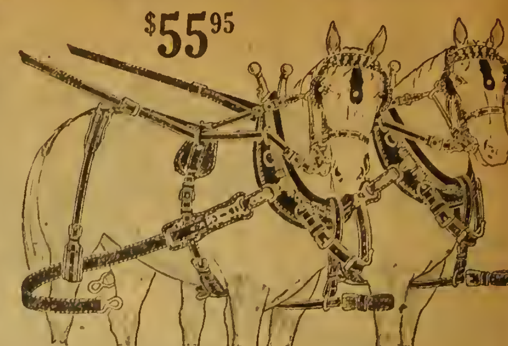


This harness made exactly as described in general specifications. With 1½-inch traces.
595 C 340—Per set........................**$56.25**
595 C 341—Made with 1¾-inch traces, and hame tugs.
Per set..**$58.20**
We furnish pads with adjustable metal tree, at the same price, in place of regular.
(Collars not included.)

General Specifications for Harness
595 C 340, 595 C 354, 595 C 351, 595 C 344, 595 C 348

Bridles—⅞ inch folded ring crown short check with bit straps and noseband, face drop, combination double and stitched winker brace and front, round side check, spotted winker brace, front, noseband and face drop.
Lines—1⅛ in by 18 feet, with buckle and billet and snaps.
Traces—1½ inch by 6 feet, heavy double and stitched, cockeye sewed in.
Hame Tugs—1½-inch laced box loop, with jointed clip and 95 C 2044 XC ball top bolt hames, with 1-inch hame straps, ¾-inch spread straps with wood rollers, folded bellybands with layer.
Pads—All harness leather, extra wide and flexible, hair stuffed with 1¾-inch layer over top and 1½-inch market straps, and with terrets and hooks.
Back and Hips—1⅛-inch hip straps with scalloped safes and trace loops, 1⅛-inch back strap to pad, folded crupper to buckle.
Breast Straps—1½ inch by 4½ feet, extra heavy with snaps and slides.
Martingales—1½-inch wide, extra heavy and doubled and stitched around front, which goes around neck-yoke, 1-inch collar straps.
Trimming—XC (white metal.)
For horses up to 1400 pounds.
Shipping Weight—Boxed ready for shipment, each harness set on this page weighs about 70 pounds.
We can furnish either 95 C 408 or 95 C 411 bridles, as illustrated on page 659, with any of the harness listed on this page at the same price.
All Harness Listed on this Page without Collars and Hitch Reins

$55.95

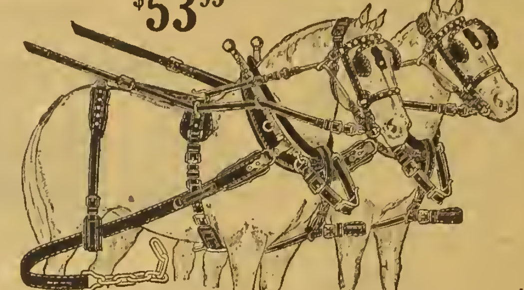


This harness is the same as 595 C 340 except it has Moeller metal hame tug and jointed clip, double and stitched leather safe under plates. Traces have hook in front, with 1½-inch traces.
595 C 354—Per set........................**$55.95**
595 C 355—Same as 595 C 354 except with 1¾-inch traces and hame tugs.
Per set..**$57.95**
(Collars not included.)

$52.95

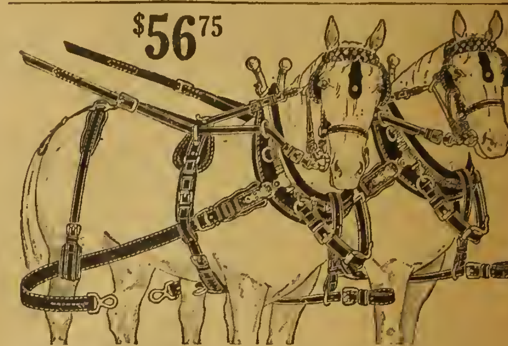
Harness made same as 595 C 340 except it has spaced loop short hame tug; 6½-foot traces; 1½-inch slip tug skirts; without hip straps, as illustrated with 1½-inch traces.
595 C 351—Per set........................**$52.95**
595 C 352—Same as 595 C 351, except with 1¾-inch traces and hame tugs.
Per set..**$54.90**
(Collars not included.)

$53.95



Same as 595 C 340 except with 95 C 756 truck trace heel chain sewed in, as illustrated. 1½-inch traces.
595 C 344—Per set........................**$53.95**
595 C 345—Same as 595 C 344 except with 1¾-inch traces, 3-row stitched and 1½-inch bellybands. Per set....**$55.95**
For 1⅛-in. by 20-foot lines in place of regular, add per set **.50**
(Collars not included.)

$56.75

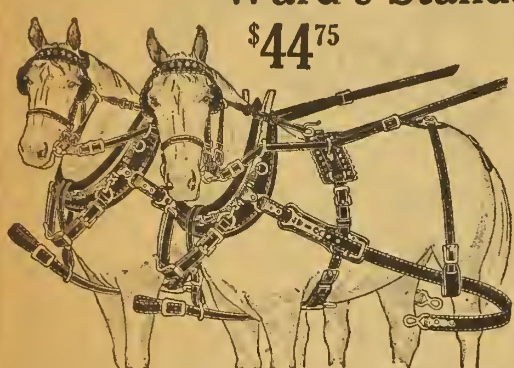


Harness is same as 595 C 340, except with spaced loop short hame tugs and 6½-foot traces, 1½-inch slip tug skirts, as illustrated with 1½-inch trace.
595 C 348—Per set........................**$56.75**
595 C 349—Harness, same as 595 C 348, except with 1¾-inch traces and hame tugs.
Per set..**$58.70**
(Collars not included.)

Ward's Standard Pad Harness—Our Standard Quality

Our medium grade of pad harness is featured with the ring crown bridle. Every set is made of carefully selected black harness leather and is stitched throughout with pure linen thread. Built in our own factory it contains all the essentials of good quality and high-grade workmanship.

$44.75



This harness made exactly as described in the general specifications, with Japanned (black) small buckles and with white metal terrets, hooks, trace buckles and nickel spots.
595 C 240—Per set........................**$44.75**
595 C 241—Same as 595 C 240 except with 1¾-inch traces and hame tugs.
Per set..**$46.70**
For 1⅛-inch by 18-foot lines, in place of regular, add, per set..**50¢**
For 1⅛-inch by 20-foot lines in place of regular, add, per set..**75¢**
For 95 C 2044 Red Wood Hame, ball top, bolt style, in place of regular, add, per set........................**$ .50**
For flexible tree pads, in place of regular, add, per set.. **1.00**
(Collars not included.)

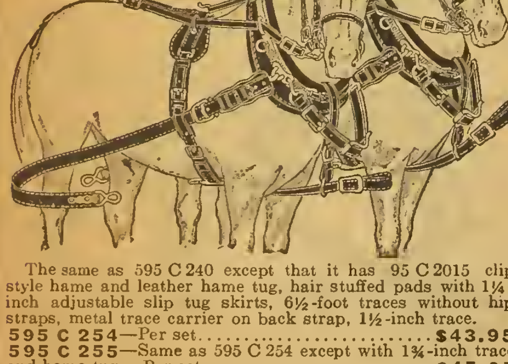
General Specifications for Harness
595 C 240, 595 C 244, 595 C 254, 595 C 251, 595 C 248

Bridles—Heavy ⅞-inch cheek, adjustable folded ring crown bridle with noseband and bit strap, combination double and stitched front and winker brace, long round side checks and spotted fronts.
Lines—1 inch wide by 18 feet long with security buckles and with snaps.
Traces—1½ inches by 5 feet 9 inches long, double and stitched with clip cockeye and with hook for Moeller plate.
Hame Tugs—1½-inch Moeller plate, leather safe, with jointed clip. 1¼-inch bellyband billets, folded bellybands with layer.
Pads—Harness leather, top spotted and with drop terrets and hooks, flat and felt lined. Dee in end and 1¼-inch market straps.
Back and Hip—1-inch hip and 1-inch back strap and crupper fork all sewed into metal trace carrier on top, folded crupper to buckle.
Breast Straps—1½-inch by 4½-foot, metal loops, with snaps and with slides.
Martingales—1½ inch wide with ⅞-inch collar strap, double and stitched front.
Hames—95 C 2050 Oiled Concord Hames, bolt draft with 1-in. hame straps and ¾-inch spread straps with wood rollers.
For horses up to 1300 pounds.
Shipping Weight
Boxed ready for shipment, each harness set on this page weighs about 70 pounds.
We can furnish 95 C 414 bridles as illustrated on page 659, on any of these Harness at same price.

$46.25

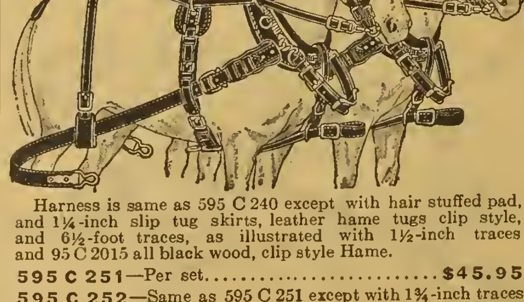
This harness made same as 595 C 240, except it has 3 loop leather hame tugs, hair stuffed pad, and 95 C 2044 Red wood XC ball top bolt hames, as illustrated. 1½-inch trace.
595 C 244—Per set........................**$46.25**
595 C 245—Same as 595 C 244, except with 1¾-inch traces and hame tugs.
Per set..**$48.30**
For 1⅛-inch by 18-foot lines, in place of regular, add, per set..**50¢**
For 95 C 2050 Oiled Concord bolt hames in place of regular, deduct, per set..**50¢**
For flexible metal tree pads, in place of regular, add, per set..**$1.00**
For 1⅛-inch by 20-foot lines in place of regular, add, per set..**75¢**
(Collars not included.)

$43.95



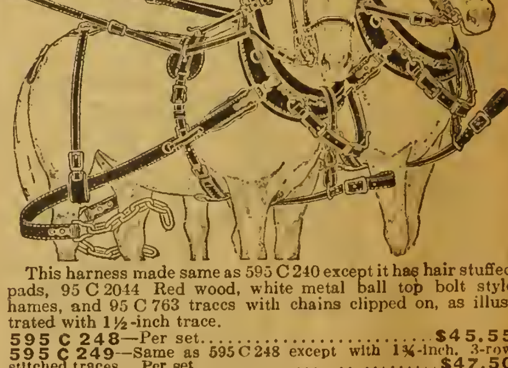
The same as 595 C 240 except that it has 95 C 2015 clip style hame and leather hame tug, hair stuffed pads with 1¼-inch adjustable slip tug skirts, 6½-foot traces without hip straps, metal trace carrier on back strap, 1½-inch trace.
595 C 254—Per set........................**$43.95**
595 C 255—Same as 595 C 254 except with 1¾-inch trace and hame tug. Per set........................**$45.95**
For 1⅛-inch by 18-foot lines in place of regular, add, per set..**50¢**
For 95 C 2043 Red wood white metal ball top clip style hames in place of regular, add, per set........................**50¢**
For flexible metal tree pads, in place of regular, add, per set..**$1.00**
(Collars not included.)

$45.95



Harness is same as 595 C 240 except with hair stuffed pad, and 1¼-inch slip tug skirts, leather hame tugs clip style, and 6½-foot traces, as illustrated with 1½-inch traces and 95 C 2015 all black wood, clip style Hame.
595 C 251—Per set........................**$45.95**
595 C 252—Same as 595 C 251 except with 1¾-inch traces and hame tugs. Per set........................**$47.95**
For 1⅛ inch by 18-foot lines, in place of regular, add, per set..**50¢**
For 95 C 2043, Red wood white metal ball top clip style hames, in place of regular, add, per set........................**50¢**
Moeller metal hame tugs, in place of regular, at same price.
For flexible metal tree pads, in place of regular, add, per set..**$1.00**
(Collars not included.)

$45.55



This harness made same as 595 C 240 except it has hair stuffed pads, 95 C 2044 Red wood, white metal ball top bolt style hames, and 95 C 763 traces with chains clipped on, as illustrated with 1½-inch trace.
595 C 248—Per set........................**$45.55**
595 C 249—Same as 595 C 248 except with 1¾-inch, 3-row stitched traces. Per set........................**$47.50**
For 1⅛-inch by 18-foot lines, in place of regular, add, per set..**50¢**
For 95 C 2050 Oiled Concord Hames, in place of regular, deduct, per set..**$ .50**
For flexible metal tree pads, in place of reg., add, per set **1.00**
Flat felt lined pads, same as 595 C 240, harness, in place of regular, at same price.
(Collars not included.)

Our Horseshoes are correctly shaped and well finished. Page 609

Ward's Standard Chain, Spring, Single Buggy and Wagon Harness

$21.50

Our Big Special Chain Harness will prove very satisfactory for plow or farm work.

Bridles—⅞-inch long cheeks, sensible blinds, flat winker brace and side check. **Lines**—⅞-inch by 18-foot with snaps. **Back Bands**—Leather, 3½ inches wide, length about 42 inches, loop on top; bellybands 1¼ inch, single strap. **Traces**—7-foot chain, ¼-inch wire with 24-inch leather piping. Hames are varnished, adjustable draft, 95 C 2008, ⅞-inch hame straps. **Back and Hip**—⅞-inch back and hip straps riveted into ring on top, folded crupper to buckle. **Breast Chains**—¼-inch wire with bar at each end. **Trimming**—Japanned (black).

For horses up to 1,200 pounds.
Shipping weight, per set, about 55 pounds.

595 C 258—Per set............................**$21.50**
595 C 260—Per set with Breeching, back and hip straps............................**26.50**

Back and Hips—⅞-inch double hips and 1-inch back strap. **Breeching**—Folded, with snaps to hold up trace chain. No side straps. Add for 1-inch by 18-foot lines in place of regular. ...**50¢**

(Collars not included.)

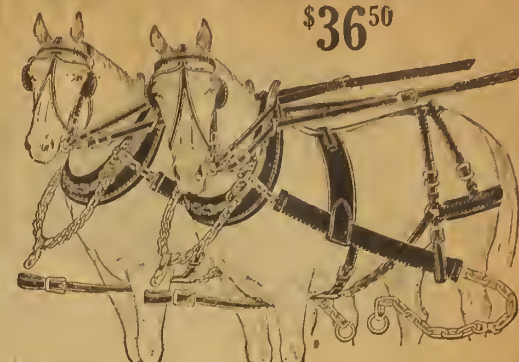
$29.50

Bridles—⅞-inch heavy long cheek harness leather, sensible blinds, round winker brace, flat side check with face piece. **Lines**—1-inch by 18-foot, with security buckles, and snaps and sewed laps. **Back Bands**—Leather, 3½ inches wide, about 42 inches long, loop on top; 1¼-inch bellybands, single strap. **Breast Chains**—32-inch with sliding center snap. **Traces**—7-foot chain, ¼-inch wire with 30-inch leather piping; hames, varnished, adjustable draft, same as 95 C 2008, 1-inch hame straps. **Back and Hip**—1⅛-inch hip with snap, and 1½-inch back strap, both sewed into ring on top, folded crupper to buckle. **Trimming**—Japanned (black). For horses up to 1,300 pounds. Shipping weight, per set, about 65 pounds.

595 C 262—Per set............................**$29.50**
For 1-inch by 20-foot lines in place of regular, add, per set...... **.50**

(Collars not included.)

$36.50



Bridles—⅞-inch heavy long cheek harness leather sensible blinds, round winker brace, flat side check with face piece. **Lines**—1-inch by 18 feet with security buckles and snaps and sewed laps. **Back Bands**—Leather, 3½ inches wide, about 42 inches long, loop on top, 1¼-inch bellybands, single strap. **Breast Chains**—32-inch with sliding center snaps. **Traces**—7-foot chain, ¼-inch wire with 30-inch leather piping; hames varnished, adjustable draft, 95 C 2008, 1-inch hame straps. **Breeching**—Folded 1-inch single side strap, ⅞-inch riveted lazy straps. **Martingales**—1½-inch, with collar straps. **Back and Hips**—⅞-inch double hip straps, 1⅛-inch back straps. **Trimming**—Japanned (black).

For horses up to 1,300 pounds.
Shipping weight, per set, about 65 pounds.

595 C 263—Per set............................**$36.50**
For 1-inch by 20-foot lines, in place of regular, add, per set.. **.50**

(Collars not included.)

Southern Wagon Harness

$19.95

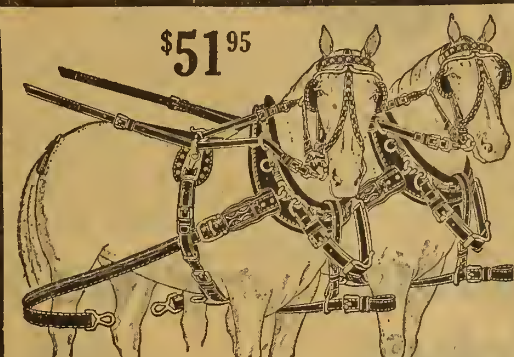
Made with 18-Inch Heel Chain Trace

The materials and workmanship of this harness are much better than is usually found in the average low priced harness.

Bridles—⅞-inch cheeks, flat winker brace and side check, with face piece. **Lines**—1-inch, length 14 feet. **Saddle**—4½-inch leather skirts and pad, nickel spotted housing, double and stitched bearers. **Shaft Tugs**—1¼-inch. **Bellyband**—single strap. **Traces**—1½-inch, length 5 feet, double and stitched attached to ball top clip hame, 18-inch heel chain clipped on. ⅞-inch hame straps. **Breeching**—Folded with layer. Side straps, 1-inch. Back strap, ⅞ inch. Hip strap, 1-inch double nickel spotted. For horses up to 1,100 pounds. Japanned (black) and white trimming. Shipping weight, per set, about 35 pounds.

595 C 190—Per set............................**$19.95**
(Collars not included.)

$51.95



Our Superior Grade Spring Wagon Harness

Bridles—¾-inch box loop cheeks, harness leather, sensible blinds, round winker braces and side checks. **Lines**—1-inch by 18-foot, with buckle and billet and snaps. **Pads**—Wide swell hair-stuffed bottom with adjustable metal plate, double and stitched skirts, adjustable bearers, spotted housing back straps, ⅞-inch, scalloped and stitched crupper to buckle. **Traces**—1⅜-inch by 6½ foot, raised double and stitched. Cockeye sewed in. **Hame Tugs**—1⅜-inch pressed box loop with inserted safe, attached to low top, all black, steel clip hames, ¾-inch hame straps, ⅝-inch spread straps, bellybands folded. **Breast Straps**—1½-inch by 4½ foot, with snaps and slides. **Martingales**—1½-inch by 3-foot, ⅞-inch collar straps. Nickel trace buckles, nickel trimmed pads, nickel spot and rosettes and small buckles XC (white) metal. For horses up to 1,300 pounds. Shipping weight, per set, about 70 pounds.

595 C 269—Per set............................**$51.95**
595 C 270—Brass trace buckles, brass trimmed pads, brass spot and rosette small buckles Japanned (black). Per set............................**$51.95**
If wanted with bolt hame tugs and hames, in place of regular add............................**$1.00**
For 1½-inch traces and hame tugs, in place of regular, add............................**$1.85**
For ¾-inch single hip straps with trace supports, add............................**$2.35**
For ¾-inch double hip straps, folded breeching, ⅞-inch layer, ⅞-inch side straps, ¾-inch lazy straps, add, per set............................**$7.95**

Be sure to state length of hames.

(Collars not included.)

Economy Buggy Harness

$17.95

Ward's Popular Medium Weight Buggy Harness

Bridles—⅝-inch box loop cheeks, round winker brace. **Lines**—⅞-inch fronts with spring billet and 1-inch hand parts. **Breast Collar**—2¼-inch single strap with 1¼-inch single strap traces attached, ⅝-inch points. **Saddle**—2¾-inch swell and hair-stuffed pad, sewed bottom, single strap skirts, flexible steel tree. **Bellyband**—Single strap. Griffith style with wrap straps. **Shaft Tugs**—⅞-inch with pressed box loops. **Breeching**—1½-inch single strap. Side straps, ⅞-inch. Back straps, straight ⅞-inch round crupper sewed on. Hip strap split ⅝-inch points. For horses up to 1,250 pounds. Shipping weight, per set, about 23 pounds.

595 C 140—Nickel trimmed. Per set..........**$17.95**
595 C 141—Imitation rubber trimmed. Per set. **17.95**
For russet hand part lines in place of regular, add... **.30**
For dee and billet shaft tugs and double bellybands in place of regular, add............................**30¢**

Standard Buggy Harness

$13.95

Light Weight Collar and Hame Buggy Harness

Bridles—⅝-inch cheek, leather blinds. **Saddle**—2½-inch iron jockey, single strap skirts. **Shaft Tugs**—⅞-inch, with center bar buckle. **Bellyband**—Griffith style, with wrap straps. **Lines**—¾-inch to snap into bit. **Hames**—3½ pounds, Japanned (black) trimming. **Breeching**—Folded: side strap, ¾-inch; back strap, ¾-inch; hip strap, ½-inch double and made to reverse into breeching. **Traces**—1-inch double. Japanned (black) trimming. For horses up to 1,050 pounds. Shipping weight, per set, about 20 pounds.

595 C 95—Per set............................**$13.95**
(Collars not included.)

Climax Buggy Harness

$13.45

A Good Low Priced Buggy Harness

Bridles—⅝-inch cheeks, flat winker braces. **Lines**—¾-inch, snap into bit. **Breast Collar**—Folded, with traces, 1-inch double and stitched, sewed to breast collar, with neck strap. **Saddle**—2½-inch iron jockey, single strap skirts. **Shaft Tugs**—⅞-inch. **Bellyband**—Griffith style with wrap straps. **Breeching**—Folded. Side straps, ¾-inch. Back straps, ¾-inch. Hip strap, ½-inch, double made to reverse into breeching; less hitch rein. Japanned (black) trimming. For horses up to 1,100 pounds. Shipping weight, about 18 pounds.

595 C 90—Per set............................**$13.45**

Paragon Express Harness

$29.50

Also Made Extra Large and Heavy

Bridles—¾-inch box loop cheeks, sensible blinds, round winker brace, flat side check with gag swivels to check to pad. **Lines**—1-inch by 14-foot, with buckle and billet. **Saddle**—4-inch, hairstuffed pad, heavy single strap skirts, 1¼-inch bearers and billets. **Shaft Tugs**—1¼-inch brass bar buckles, dee and billet style. **Bellybands**—Inside, 1¼-inch double and stitched; outside, single straps. **Traces**—1½-inch, length, 5 feet, heavy, double and stitched with scalloped safe, ball top clip hame, 12-inch heel chain clipped on. **Breeching**—Folded with layer, side straps 1⅛-inch, back strap 1¼-inch, with crupper to buckle, hip strap ⅞-inch points with brass spots. For horses up to 1,300 pounds. Japanned (black) and brass trimming. Shipping weight, per set, about 45 pounds.

595 C 195—Per set............................**$29.50**

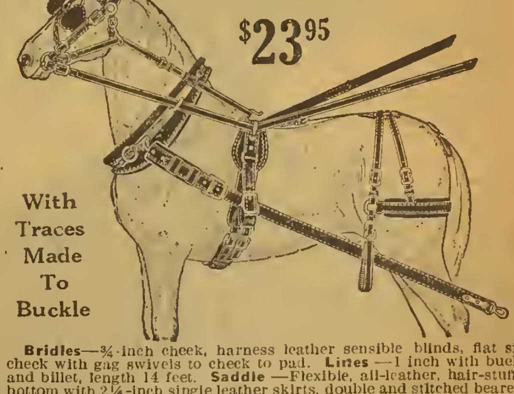
Extra Large Harness for 1,500-Pound Horses

Same style as above, except made heavier and extra large.

595 C 196—Per set............................**$31.95**
(Collars not included.)

Sturdy Wagon Harness

$23.95



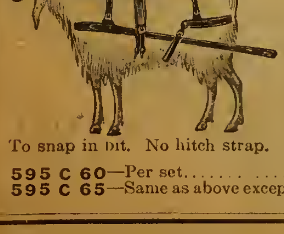
With Traces Made To Buckle

Bridles—¾-inch cheek, harness leather sensible blinds, flat side check with gag swivels to check to pad. **Lines**—1 inch with buckle and billet, length 14 feet. **Saddle**—Flexible, all-leather, hair-stuffed bottom with 2¼-inch single leather skirts, double and stitched bearers. **Shaft Tugs**—1¼-inch. **Bellyband**—Single strap. **Traces**—1½-inch, double and stitched, with clip cockeye, length 6 feet. **Hame Tugs**—1½-inch folded, two loop, attached to low top wood clip hames, with ⅞-inch hame straps. **Breeching**—Folded with layer, side straps 1 inch, back strap 1 inch with crupper, hip straps ⅞ to reverse into breeching, double. For horses up to 1,200 pounds. Be sure to give size of hames wanted. Japanned and brass trimmed. Shipping weight per set, about 35 pounds.

595 C 180—Per set............................**$23.95**
High top hame furnished at same price.
(Collars not included.)

Goat and Dog Harness

$3.45

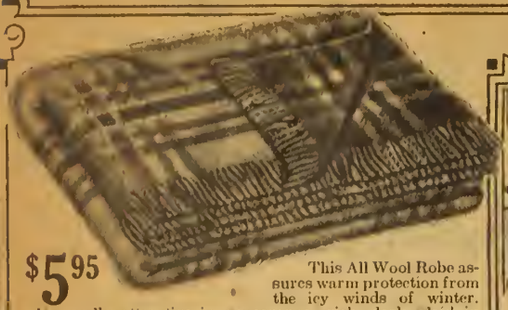


To snap in bit. No hitch strap.

Single Harness for Goats, russet leather. **Bridle**—½-inch with bit to snap. **Breast Collar**—1¼-inch. **Traces**—1-inch flat sewed to breast collar. **Saddle**—2-inch flat, full lined. **Breeching**—1¼-inch flat with plain layer points. **Lines**—⅝-inch by 6-foot. Shipping weight, 3 pounds.

595 C 60—Per set............................**$3.45**
595 C 65—Same as above except made for dog. Set **3.30**

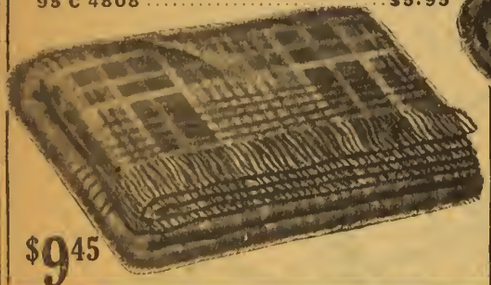
Ward's High Grade Motor Robes



$5.95

This All Wool Robe assures warm protection from the icy winds of winter. Unusually attractive in appearance—rich, dark plaid in green and brown through pattern. Has fringed edges. Ample in size to insure maximum warmth; 56 by 80 inches. A robe it would be difficult to duplicate elsewhere at our price. Shipping weight, 4 pounds.

95 C 4808 ..... **$5.95**



$9.45

When cold winter winds are blowing you will be glad to wrap yourself warmly in this comfortable, All Wool Fringed Robe. Beautiful dark blue plaid and fancy green and buff over plaid; 58 by 80 inches. Shipping weight, 5 pounds.

95 C 4815 ..... **$9.45**

Special

$3.25

Be warm and comfortable when driving this winter. This good quality Geneva Robe is an excellent and dependable protection from wintry weather. Warm, dark plaids—white, green and red on gray grounds—make it look as warm as it really is. Turned edges. Sizes, 54 by 72 inches. Shipping weight, 4 pounds.

95 C 5050 ..... **$3.25**

$8.45

The welcome warmth of this soft and cozy Pure Wool Robe makes winter driving more pleasant and comfortable. It is pleasing in appearance also, with its dark gray back and beautiful plaid face in gray, red and white. 58 by 80 in. Ship. wt., 4 pounds.

95 C 4817 ..... **$8.45**

$13.95

Enjoy your winter motoring. Be warm and comfortable in zero weather. This—our best All Wool Motor Robe—assures comfort and protects your health. Soft and fluffy to the touch, pleasing and attractive to the eye. Dark blue plain back; dark green with red and white plaid face; 58 by 60 inches. Shipping weight, 4 pounds.

95 C 4818 ..... **$13.95**

Persian Lamb Fabric Robes

$9.95

Persian Lamb Cloth Reversible Robe

Waterproof as well as proof against winter weather, this Robe robs snow and sleet of much of their discomfort. No one who drives during the winter should be without its protection to health and comfort.

Made of good quality Persian lamb cloth, both face and back, and interlined with rubber. Turned edges. In black only; 54 by 72 inches. Shipping weight, 7 pounds.

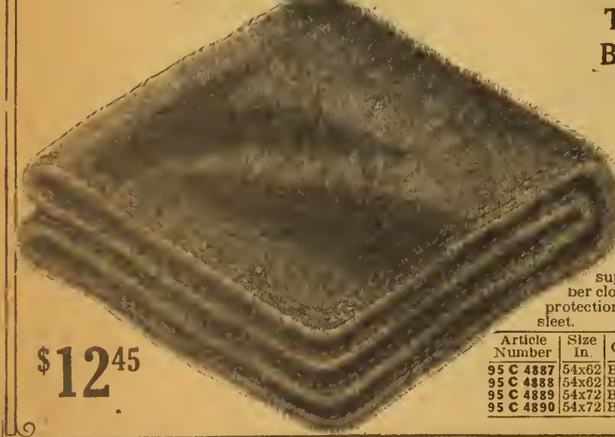
95 C 4891 ..... **$9.95**

$10.95

Heavy Buffalo Cloth

A type of Robe which has proved highly satisfactory as a thoroughly dependable protection against severe weather. It has a fur cloth face and medium curl Astrakhan cloth lining with stitched edges of the same material. Rubber interlining makes it waterproof as well as windproof; 54 by 62 inches. Shipping weight, 7½ pounds.

95 C 4885—Black **$10.95**
95 C 4886—Brown **10.98**



$12.45

Turned and Bound Edge Robe

An extra heavy Robe with fur cloth face and Astrakhan cloth lining. Self stitched edges. Interlining of superior quality rubber cloth gives waterproof protection against snow and sleet.

Article Number	Size In.	Color	Ship. Wt.	Price Each
95 C 4887	54x62	Black	8½ lbs.	$12.45
95 C 4888	54x62	Brown	8½ lbs.	12.48
95 C 4889	54x72	Black	9½ lbs.	13.95
95 C 4890	54x72	Brown	9½ lbs.	13.98

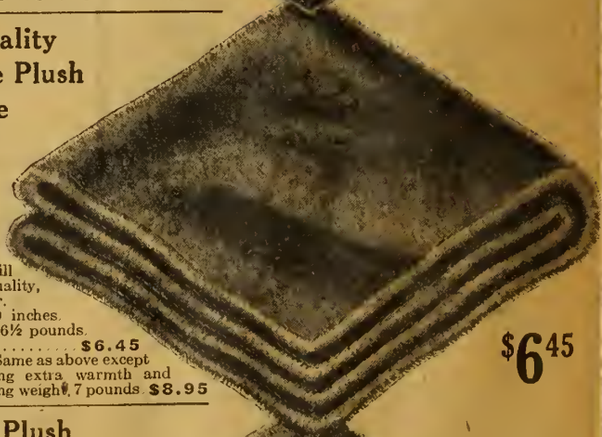
Plush Motor Robes

$4.95

A Waterproof Robe At a Big Saving

A Motor Robe designed to give the utmost in satisfactory service. It is of rich, fine quality plain green plush on one side; Goodyear rubber cloth on the other, making it waterproof and windproof. Size, 48 by 60 inches. Shipping weight, 6½ pounds.

95 C 4898 ..... **$4.95**
95 C 4899—Same as above except 54 by 72 in. Shipping weight, 8 pounds .. **$5.95**



$6.45

Fine Quality Reversible Plush Robe

A soft and comfortable Motor Robe of fine quality double plush. One side is plain green; the other, black. A robe which will please you in quality, comfort and wear.

Size, 50 by 60 inches. Shipping weight, 6½ pounds.

95 C 4909 ..... **$6.45**
95 C 4913—Same as above except extra large, giving extra warmth and comfort. Shipping weight, 7 pounds **$8.95**

$12.95

Raised Plush Rubber Interlined Robe

Hard usage will prove this Motor Robe unusual in wearing quality as well as in the protection it affords against dust, wind, cold and dampness. Made of two-ply regular robe plush with rubber interlining. One side of robe is plain green; the other, black; 54 by 72 inches. Shipping weight, 9½ pounds.

95 C 4922 ..... **$12.95**
95 C 4923—Same as above except extra size and quality; 54 by 84 inches. Shipping weight, 12½ pounds **$13.95**

See Index, Pages 322 to 332, for our complete line of Auto Supplies

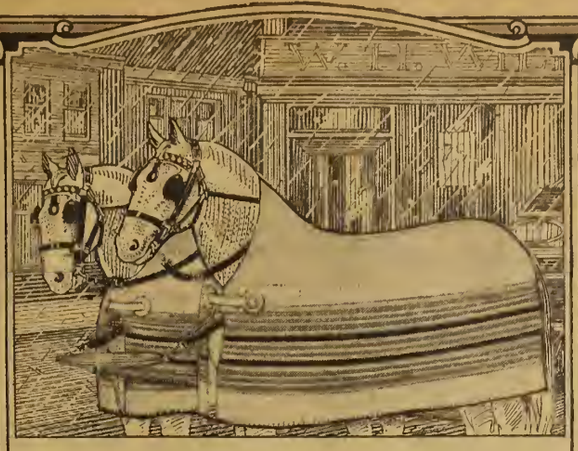
Ward's Well Made Horse Blankets

$3.95 Large Plaid Street Blanket

A large size Plaid Street Blanket with tinted body and fancy colors. It is carefully made and will give good wear. Has buckle and strap front fastener.

95 C 4221—Size, 80 by 84 inches. Shipping weight, 6 pounds **$3.95**

95 C 4222—Size, 84 by 90 inches. Shipping weight, 7 pounds **$4.50**



An Unusual Value in Low Priced Blankets

$1.48 The Blanket illustrated above is of special interest to those who are looking for good values at exceptionally low prices. It is handsome in appearance, having a gray ground with fancy striped border. Although it is not equal in quality to Ward blankets of somewhat higher price, it is an unusually good blanket for the money and will surely satisfy you in every way.

It is carefully woven from good materials and has a buckle and strap fastener in front. It is specially reinforced to give extra wear.

95 C 5051—Size, 72 by 72 inches. Shipping weight, 3½ pounds **$1.48**

95 C 5052—Size, 76 by 80 inches. Shipping weight, 4½ pounds **$2.20**

95 C 5053—Size, 80 by 84 inches. Shipping weight, 5 pounds **$2.45**

See Our Complete Line of Hames on Page 660

$2.95 Dark Toned Blanket With Fancy Border

A Blanket we strongly recommend to our customers. It has dark body with fancy striped border and is nearly square. Has buckle and strap front fastener.

95 C 5054—Size, 80 by 84 inches. Shipping weight, 6 pounds **$2.95**

$5.15 A Richly Colored Blanket

A good value Plain Blanket with extra fancy ground and rich attractive colors. Buckle and strap front fastener.

95 C 4579—Size, 80 by 84 inches. Shipping weight, 6 pounds **$5.15**

95 C 4580—Size, 84 by 90 inches. Shipping weight, 7 pounds **$5.95**

$3.50 Soft Gray Blanket

A soft, fluffy Gray Blanket with fancy stripes. Front fastener. Very satisfactory.

95 C 4236—Size, 80 by 84 inches. Shipping weight, 6 pounds **$3.50**

95 C 4237—Size, 84 by 90 inches. Shipping weight, 7 pounds **$4.25**

$4.55 Blanket With Fancy Striped Border

Fine Body Blanket. Buckle and strap front fastener.

95 C 4500—Size, 84 by 90 inches. Ship. wt., 8 lbs. **$4.55**

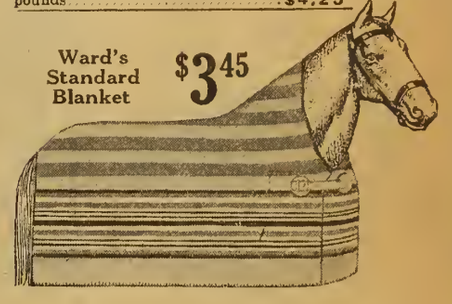
95 C 4501—Size, 90 by 90 inches. Ship. wt., 9 lbs. **$5.15**

95 C 4502—Size, 90 by 96 inches. Ship. wt., 10 lbs. **$6.25**

$6.15 Attractive Plaid Wool Blanket

A Plaid Wool Blanket of unusual quality. Rich colors give it a handsome appearance. Buckle and Strap front fastener. Size, 84 by 90 inches. Shipping weight, 7 pounds.

95 C 4649 ..... **$6.15**

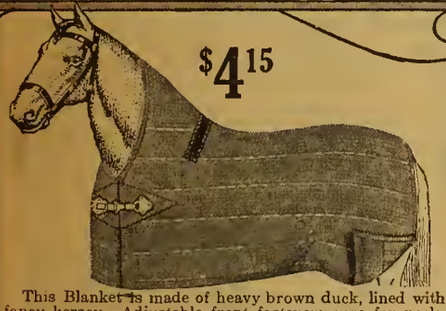


$3.45 Ward's Standard Blanket

Our best standard Blanket. Barred body, attractive stripes. Superior finish, extra strong. Buckle and strap front fastener. Size, 84 by 90 inches. Shipping weight, 8 pounds.

95 C 4564 ..... **$3.45**

Ward's Reliable Stable Blankets



$4.15

This Blanket is made of heavy brown duck, lined with fancy kersey. Adjustable front fastener; gore for neck-piece; 10-row stitched. Has hame leathers and trace holder.

95 C 4300—Size, 80 by 84 inches. Shipping weight, 7 pounds **$4.15**

95 C 4301—Size, 84 by 84 inches. Shipping weight, 7½ pounds **$4.40**

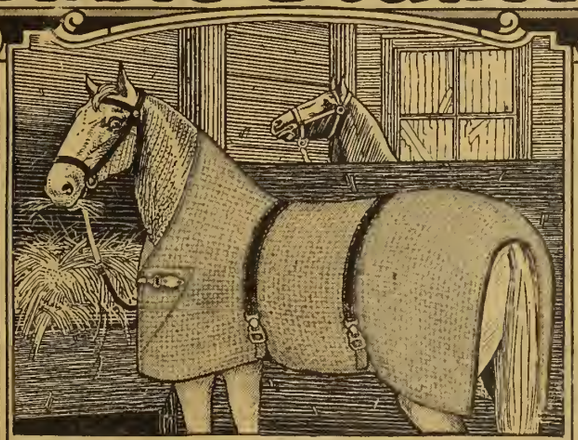
95 C 4302—Size, 90 by 84 inches. Shipping weight, 8 pounds **$4.95**

$1.80

This kersey Cloth Stable Blanket has bound front and strong snap fastener; two 1½-inch adjustable girdles long stay; hemmed edge. It is a very good value for the price and certain to please you in every way.

95 C 4217—Size, 76 inches. Shipping weight, 4 pounds **$1.80**

95 C 4218—Size, 80 inches. Shipping weight, 4½ pounds **$2.10**



98¢ A Stable Cover made of heavy burlap with strong snap fastener in front. It has two 1¼-inch adjustable girdles. The front is hemmed. A cover which will give good wear and prove satisfactory in every way. The price is unusually low. Size 72 inches.

95 C 4211—Unlined. Shipping weight, 2 pounds ..... **98¢**

95 C 4212—Lined half way with kersey. 76 inches. Ship wt, 3 pounds **$1.45**

95 C 4213—Lined three-quarter way with kersey. 76 inches. Ship. wt., 4 pounds **$1.65**

95 C 4214—Full lined with kersey. 76 inches. Shipping weight, 5 pounds **$1.95**

95 C 4215—Same as 95 C 4214 except 80 inches. Shipping weight, 5¼ pounds **$2.25**

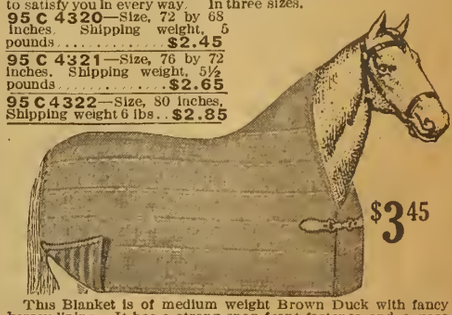
$2.45

A medium weight Brown Duck Stable Blanket with full kersey lining. Has bound front with a strong snap fastener and short stay. Two 1¼-inch adjustable girdles. 10-row stitched. It is of very good quality for the price and is certain to satisfy you in every way. In three sizes.

95 C 4320—Size, 72 by 68 inches. Shipping weight, 5 pounds **$2.45**

95 C 4321—Size, 76 by 72 inches. Shipping weight, 5½ pounds **$2.65**

95 C 4322—Size, 80 inches. Shipping weight 6 lbs. **$2.85**



$3.45

This Blanket is of medium weight Brown Duck with fancy kersey lining. It has a strong snap front fastener and a gore inserted for neck piece. Is 10-row quilted. Has no hame leathers nor trace holders.

95 C 4326—Size, 76 by 80 inches. Shipping weight, 6 pounds **$3.45**

95 C 4327—Size, 80 by 80 inches. Shipping weight, 6½ pounds **$3.65**

Ward's Guaranteed Stock Saddles

$46.45

Built on Hide Covered Tree

Monarch Stock Saddle

Made to Stand the Heaviest Roping
Cut from Best Skirting Leather
Equipped with Sampson Horn

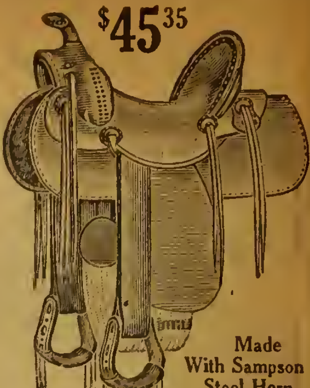
Tree—15-inch hide covered, Sampson steel horn, with 14-inch bulge.
Front—Raised and Beaded. Rawhide bound front.
Seat—Full, seat and jockeys in one piece. Rawhide bound cantle, invisible seam.
Skirts—27 by 13 in wool sheepskin lined. Embossed stamped border.
Fenders—9 by 15 inches, attached to stirrup leathers.
Stirrup Leathers—2¾ inches, doubled at points to lace.
Tie Straps—1¾ inches by 4½ feet, skirting leather.
Buckle Straps—1¾ inches on off side. Rings, leather covered.
Cinchas—20-strand hair girth in front, heavy belting web in rear, leather chaped and connected.
Stirrups—Turner, improved, metal stirrup leather trimmed with latigo tie straps. Double rigged.
Weight of saddle, 29 pounds. Shipping weight, 39 pounds.
595 C 891 .... $46.45
595 C 892—Same as above except single rigged . 44.95

Montana Stock Saddle

Wide Bulge, Large Seat and Long Skirts
Made with Hide Covered Tree
Skirts Wool Sheepskin Lined

Tree—15-inch Monarch hide covered Sampson Steel Horn. The horn is leather covered, with a 15-inch bulge.
Seat—Full, seat and jockeys in one piece. Has a leather bound cantle.
Front—Raised and beaded. Leather bound.
Skirts—27 by 13½ inches, round cornered, and wool sheepskin lined.
Fenders—8¼ by 15½ inches and attached to the stirrup leathers.
Stirrup Leathers—2¾ inches, lined at the points to lace. Rawhide laced strings.
Tie Straps—Single rig. 1⅞ inches on near side, and 2-inch buckle strap on off side and ¾-inch rope on the off side.
Girths—5 inches. Mexican hard twist cotton, wool lined.
Stirrups—Turner, metal leathered and laced.
Weight of saddle, 28 pounds. Shipping weight, 38 pounds.
595 C 887 .... $45.35

$45.35



Made With Sampson Steel Horn

Winner's Stock Saddle

$28.95

Cut from California Skirting leather, Sampson steel horn full basket stamped, wide bulge, and rigging attached to tree with metal straps, leather covered. A saddle that always gives satisfaction—high in quality and moderate in price. Made strong enough to give good service, but will not stand heavy roping.

Tree—15-inch seat, about 11½-inch bulge, steel horn leather covered.

Skirts—22½ inches long, 12 inches deep. Wool sheepskin lined. Cantle leather bound.

Seat—Full, jockey and seat all in one piece.

Stirrup Leathers—2 inches lined at points, latigo lacing, fenders 8 by 15 in. attached.

Tie Straps—1¼ by 4½ inches, buckle straps 1½ inches.
Cinchas—15-strand Texas cotton, leather ends.
Stirrups—1½-inch plain ox bow, wood.
Weight of saddle, 23 pounds. Shipping weight, 30 pounds.
595 C 907 .... $28.95
595 C 908—Same as above except with single girth ... 28.45

La Platte Stock Saddle

$27.50

Equipped with the Sampson Steel Horn guaranteed for roping (if the horn should break we will give you a new saddle). A saddle that if given reasonable care will give you many years of good service. It has a front basket stamped, which makes it a handsome design. Skirts are lined with a good grade of felt and basket stamped.

Tree—14½-inch with 11-inch swell front. Steel horn. Front, basket stamped. Steel strainer.

Seat—Full, seat and jockeys in one piece. Roll beaded cantle.

Skirts—22½ by 11½-in. felt lined, basket stamped.

Fenders—8 by 15-in., basket stamped.

Stirrup Leathers—1¾-inch to lace, lined at points.
Tie Straps—1¼-inch, 1½-inch buckle straps on off side.
Stirrups—1½-inch wood, ox bow pattern.
Girths—20-strand Texas cotton. Double rigged. Weight of saddle, 20 pounds. Shipping weight, 26 pounds.
595 C 898 .... $27.50
595 C 899—Same as above except with leather covered stirrups 28.95

Hereford Stock Saddle

$44.55

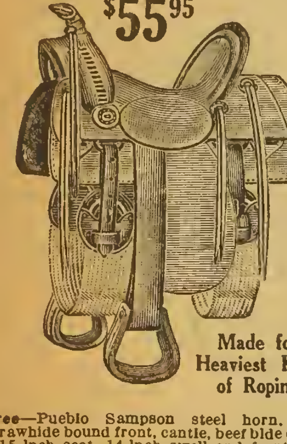
A very attractive basket stamped saddle, equipped with the Sampson Steel Horn which is guaranteed to stand the strain of heavy roping. The skirts are made wide and are wool sheepskin lined.

Made with Sampson Steel Horn
One of our best stock saddles at a popular price.
A very attractive design.

Tree—15-inch hide covered Sampson Steel Horn, 14-inch swell.
Front—Hood style, laced on sides with Horn string on near side of front. Leather bound.
Seat—Full, seat and jockeys in one solid piece, leather bound cantle. Steel strainer.
Skirts—27 by 13-inch wool sheepskin lined.
Fenders—16 by 10 inches attached to Stirrup Leathers.
Stirrup Leathers—3-inch doubled at points to lace.
Tie Straps—1¾ inch full length, 1¾-inch buckle straps on off side.
Stirrups—2-inch wood Ox Bow pattern leathered on sides with leather bars and leather foot pieces.
Girths—Fine Mexican Hair, 6 inches wide, leather chapes. Has fancy brass tie ornaments. Full Clover Leaf, hand stamped design. Double rigged.
Weight of saddle, 27 pounds. Shipping weight, 42 pounds.
595 C 895 .... $44.55

Cody Stock Saddle

$55.95



Made for Heaviest Kind of Roping

Tree—Pueblo Sampson steel horn. Black rawhide bound front, cantle, beef hide covered, 15-inch seat, 14-inch swell and front lacings.
Skirts—29 inches long and 14 inches deep. California bark tanned, wool sheepskin lined.
Horn—Leather covered with cap.
Fenders—10 by 18 inches, attached to stirrup leathers.
Seat—Full; seat, jockey and cantle in one piece.
Stirrup Leathers—3 inch double at points to lace.
Tie Straps—1¾ inches by 5 ft.; buckle straps, 2 inches.
Stirrups—Visalia wood, 2¾ inches, full brass bound. Rings, steel covered. Rope strap ¾ inch on off side.
Cinchas—18 strand California Angora white hair, with leather chapes, wool lined and buckle tongues on each end, and connected. Double rigged. Weight of saddle, 35 pounds. Shipping weight, 45 pounds.
595 C 894 .... $55.95

Ladies' Astride Saddles

$14.95

Made with a fancy quilted seat and padded with gray goat hair.

This is a very stylish Astride Saddle for women. We are offering it at a low price. Made from good Russet Skirting Leather.

Tree—14-inch Canby, Steel Fork.

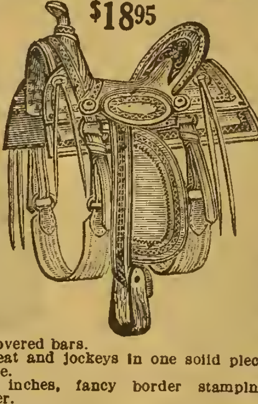
Bars—Felt lined. Horn, Leather covered.

Seat—Soft chrome tanned leather and quilted, padded with gray goat hair.

Skirts—11 by 20 inches from center of seat.
Stirrup Leathers—1-inch to buckle.

Tie Straps—1⅛ inches.
Cinchas—3-inch web.
Stirrups—2½-inch heavy wood.
Weight of saddle, 14 pounds.
Shipping weight, 24 pounds.
595 C 911 .... $14.95

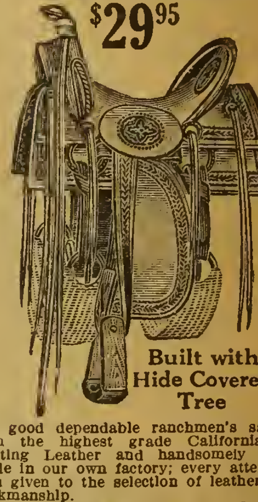
$18.95



Our highest grade of astride saddle. Skirts full and have fancy stamped border, making the saddle very attractive. A very easy saddle for riding and one that will give good service.
Tree—14½ inches. Western Steel fork. Wool sheepskin covered bars.
Seat—Full, seat and jockeys in one solid piece. Bound cantle.
Skirts—22½ inches, fancy border stamping. Steel strainer.
Fenders—7 by 14 inches.
Stirrup Leathers—1¾-inch to buckle.
Tie Straps—1⅛ inches. Covered rings. Securely rigged.
Cinchas—3½ inches. White backband web.
Stirrups—Open wood riveted. Weight of saddle, 15 pounds. Shipping weight, 25 pounds.
595 C 901 .... $18.95
595 C 902—Same as above except with leather covered stirrups. Shipping weight, 26 pounds $20.45

Ajax Stock Saddle

$29.95

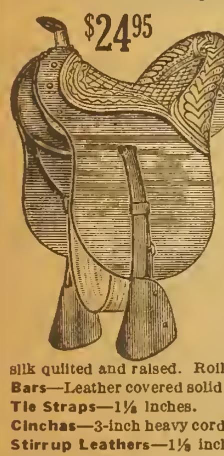


Built with Hide Covered Tree

A good dependable ranchmen's saddle cut from the highest grade California Russet Skirting Leather and handsomely designed. Made in our own factory; every attention has been given to the selection of leather and the workmanship.
Tree—14½-inch seat. Hide covered, steel fork with 12-inch swell front.
Seat—Full; jockeys and cantle in one solid piece, leather bound front and cantle; front laced on sides.
Skirts—23 by 12 inches; heavy felt lined.
Fenders—7½ by 15½ inches.
Stirrup Leathers—2 inch doubled at points to lace.
Tie Straps—1¼ inches, full length and billets 1⅜ inches.
Cinchas—20-strand California cotton.
Stirrups—2-inch Ox Bow, leather tops and bottoms. We will furnish our regular iron stirrup if preferred, without extra cost.
Ornaments—Brass conchas and latigo horn string. Weight of saddle, 16 pounds. Shipping weight, 21 pounds.
595 C 897 .... $29.95

Kentucky Saddle

$24.95

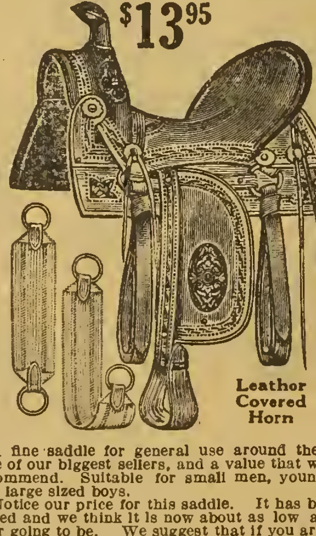


This is the highest grade saddle of its kind we make. It is built with the nickel horn and a fancy quilted seat which makes it very easy riding both for the rider and horse.
Tree—15-inch Nickel Horn, Mosby Tree.
Skrits—Length, 22½ inches from center of seat. Fair oak skirting leather.
Seat—Full covered with calfskin, fancy silk quilted and raised. Roll cantle.

Bars—Leather covered solid leather underskirts.
Tie Straps—1⅛ inches.
Cinchas—3-inch heavy corded to tie.
Stirrup Leathers—1⅛ inches.
Stirrups—2½-inch wood, leather covered.
Weight of saddle, 16 pounds.
Shipping weight, 21 pounds.
595 C 910 .... $24.95

Our Favorite

$13.95



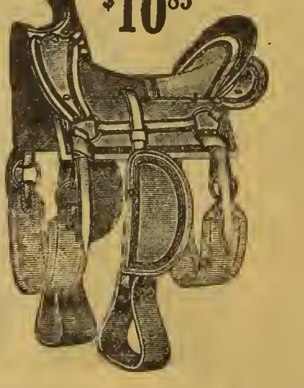
Leather Covered Horn

A fine saddle for general use around the farm. One of our biggest sellers, and a value that we fully recommend. Suitable for small men, young men, and large sized boys.

Notice our price for this saddle. It has been reduced and we think it is now about as low as it is ever going to be. We suggest that if you are figuring on buying a saddle for your boy this is a mighty good bargain.
Tree—13½-inch Morgan Steel Fork. Leather covered horn, rigging securely fastened to tree.
Skirts—20 inches long, lined with felt.
Seat—Full seat, leather bound cantle.
Stirrup Leathers—1½ inch, double at buckle end, fenders, 7 by 13 inches.
Tie Straps—1-inch by 4 feet.
Cinchas—3½-inch cotton web.
Stirrups—3-inch bent wood.
Weight of saddle, 13 pounds.
Shipping weight, 20 pounds.
595 C 920 .... $13.95

Popular Boys' Saddle

$10.85



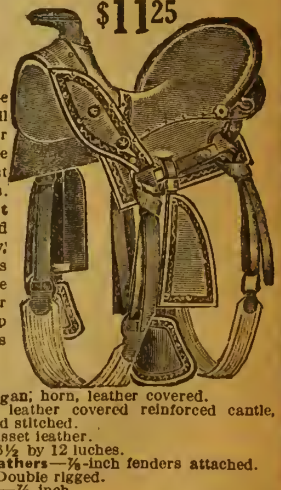
This is a very popular saddle, large enough for boys up to 15 years old and a safe saddle for the boys to ride.

Rawhide covered Morgan style horn can be furnished with or without leather covered stirrups.

An excellent value at our price especially when you consider that it is fully guaranteed. It will make a fine Christmas or birthday gift.
Tree—13-inch rawhide cover. Morgan horn.
Skirts—13½ inches.
Fenders—6 by 12 inches.
Seat—Half leather covered.
Stirrup Leathers—1 inch with fenders attached.
Tie Straps—1-inch, securely rigged with skirts to prevent rings from chafing horse.
Cinchas—3½-inch white cotton backband web.
Stirrups—3-inch wood.
Weight of saddle, 9½ pounds.
Shipping weight, 14 pounds.
595 C 917 .... $10.85
595 C 918—Same as above, except with leather covered stirrups. Weight, 10 pounds.
Shipping weight, 15 pounds $11.65

Pony Saddle

$11.25



A saddle to fit small horse or pony. Double rigged, just like father's. It is built strong and correctly, which means safety to the rider. For children up to 12 years of age.

Tree—11 inch Morgan; horn, leather covered.
Seat—Full leather covered reinforced cantle, bound and stitched.
Skirts—Russet leather.
Fenders—6½ by 12 inches.
Stirrup Leathers—⅞-inch fenders attached.
Rigging—Double rigged.
Tie Straps—⅞-inch.
Cinchas—Corded cotton.
Stirrups—Boys' 2-inch wood, leather covered.
Weight of saddle, 7½ pounds.
Shipping weight, 12 pounds.
595 C 926 .... $11.25

See our complete line of Horse Blankets on Page 653

Ward's Guaranteed Riding Saddles

$15.25

A popular style saddle made of imitation pigskin and with Somerset tree and knee puffs. One of the highest grade saddles of its kind. The materials and workmanship will give complete satisfaction

Tree — 17-inch Improved Somerset Tree. Steel braced and strong.
Skirts — 19 inches from center of seat. Russet Leather Pigskin impression and Pigskin impression knee puffs.
Seat— Pigskin impression, lined pad, full hair stuffed and leather faced.
Stirrup Straps— Heavy, 1 inch.
Girth — 3½-inches, white cotton.
Stirrups—Metal. Weight of saddle, 10½ pounds. Shipping weight, 15 pounds.
595 C 916 .... **$15.25**

$9.25

Pony Saddle Russet Leather

A saddle which will please your boy, keep him out of doors, and help him to become a good rider. Made just the right size for a small horse or pony.

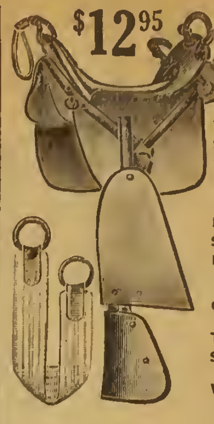
Tree — 11 inches, Morgan, leather covered horn.
Stirrup Leathers—⅞-inch.
Stirrups—2 inch Leather covered.
Girth—2½ inch, fancy web.
Seat—Chrome buckskin, fancy quilted. Made of russet skirting leather.
Weight of saddle, 7 pounds. Shipping weight, 12 pounds.
595 C 925 .... **$9.25**

$13.25

Quilted Seat

Tree — 16 inches genuine stitched down, Iron Gullet.
Seat — Fine Russet sheepskin with finely quilted seat, pommel and cantle.
Skirts—11 inch Russet leather, very deep round corners.
Pad — Is made very heavy bound with leather, heavy drill bottom.
Girth—Heavy corded cotton girth.
Stirrup Leathers—1 inch.
Stirrups — 3 inch wood; bolted. Weight, of saddle, 11 pounds. Shipping weight, 17 pounds.
595 C 922 ..... **$13.25**
595 C 923—Same as above, except with leather covered stirrups. Weight, of saddle, 12 pounds. Shipping weight; 18 pounds.......... **$13.95**

$12.95



McClellan Style Saddle, made of Russet Leather

Tree—14-inch McClellan.
Skirts—12-inch.
Seat Solid leather covered, with Brasses and Coat Straps. Perforated center.
Bars—Leather covered.
Stirrup Leathers—1-inch.
Fenders—7 by 12 inches, attached to Stirrup Leathers.
Girth—3-inch Corded web to tie.
Tie Straps—1-inch.
Stirrups—2½-inch wood, leather covered.
Weight of saddle, 11 pounds. Shipping weight, 17 pounds.
595 C 921 .... **$12.95**

For Durability, For Extra Wearing Qualities and For Price Buy Ward's Riding Bridles

Has ⅞-inch cheeks, ½-inch throat latch and ⅞-inch reins, length, 4½ feet; port bit and XC (white) metal plated center bar buckles, large nickel rosettes. Price includes the bit. Shipping weight, 2 pounds.
95 C 811...$1.93

Our Montana Style Cowboy Bridle. Made from high-grade russet skirting leather. Fancy cheeks, ⅞-inch nickel buckles and conchas, swell front. Reins ⅞-inch by 6 feet; with quirt ends and with buckle and billet at front. Bit not included. Shipping weight, 2½ pounds.
95 C 806...$3.49

Made from California russet skirting leather; crown piece, 1½ inches, cheeks 1½-inches; fancy stamped made for bit to lace in; ⅞-inch front; ⅝-inch throat latch; ⅞-inch buckle and billet reins, 7 feet, with quirt ends. Nickeled buckles. Bit not included. Shipping weight, 2 lbs.
95 C 807...$3.30

Russet Leather, 1-inch adjustable double crown, ring on each end, ¾-inch cheeks, nickel rings and slide loops; ¾-inch reins, length, 6 feet; buckle, billet, quirt ends, ¾-inch front, ½-inch throat latch, ½-inch, curb strap. XC (white) metal with port bit. Price includes bit. Ship. wt., 2⅛ pounds.
95 C 808 ..$3.64

Made of heavy russet skirting leather. Headstal, cut in one piece, checks 1 inch wide and double all around and made to buckle on top, reins ⅞-inch, quirt end, length, 5 feet to loop in bit. ⅝-inch curb strap. Bit not included. Shipping weight, 1¼ pounds.
95 C 810...$2.20

Our pony bridle is an excellent riding bridle and is made of Russet leather, smooth finish with 4-foot reins and has port bit. Has a solid crown ¾-inch flat cheeks to buckle in bit, ¾-inch flat reins to buckle in XC (white) metal pony port bit. Price includes bit. Shipping weight, 1¼ pounds.
95 C 812...$1.65

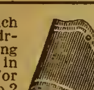
⅞-inch. No. 1 quality web with ⅝-inch all around throat latch, ⅝-inch front, nickel rosettes and XC (white) metal plated port bit. This is a good serviceable web bridle. Made for average size saddle horse. We do not make any changes on this style. Price includes bit. Shipping weight, 12 ounces.
95 C 815..... 90¢

Ring Crown Riding Bridle

This bridle is a favorite with our customers. It is made of the best grade russet skirting leather, and has ⅞-inch double cheeks which are made to buckle into ring in crown; ⅞-inch reins, length about 5 feet, and with quirt ends, curb strap, ¾-inch front. XC (white) metal buckles and bit. Price includes bit. Shipping weight, 2¼ pounds.
95 C 809............. $2.53

Covered Stirrups

Tapideros or Covered Stirrups. California skirting put on 4-inch Texas wood stirrups; for stirrup straps from 2 to 2½ inches; length, 13 inches on each side. Nickel conchas. Shipping weight, per pair, 2½ pounds.
95 C 823—Per pair........ **$4.75**



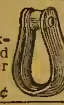
Covered stirrups, 3-inch Texas Bolted Wood Stirrups, cover of skirting leather, 8 inches long in the center at the front, for stirrup straps from 1½ to 2 inches wide. Shipping weight, per pair, 2½ pounds.
95 C 825—Per pair........ **$2.25**

Covered Stirrups, 3-inch wood stirrups, russet leather cover, embossed border, 8 inches long in the center of the front. Will take stirrup straps from ⅞ to 1½ inches wide. Shipping weight, per pair, 18 ounces.
95 C 824—Per pair........ **$1.30**

Texas Style Stirrups. The highest grade of its kind. Best of materials and workmanship. Brass bound oxbow stirrups, 2 inches wide, 2¾-inch bars bolted through, leathered on bars and bottoms. Shipping weight, per pair, 1¼ pounds.
95 C 826—Per pair **$2.55**

Texas Style Malleable Iron Stirrups. Leather bottom laced with latigo. Turner metal. A stirrup built to stand hard wear. Makes a neat and attractive appearance. Shipping weight, per pair, 1½ pounds.
95 C 827—Per Pair....... **$2.35**

Oxbow Stirrups



Two-inch Wood Stirrups, oxbow shape, 2¾-inch bar bolted through. Shipping weight, per pair, 1 pound.
95 C 830—Per pair....**43¢**

Wood Stirrups

Texas Bolted Wood Stirrups, 4 inch bottoms. Bars, length, 2 inches, and suitable for stirrup leathers from 1½ to 2 inches wide. Shipping weight, per pair, 2 pounds.
95 C 822—Per pair .... **34¢**

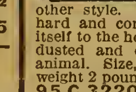
Saddle Strings

Chrome tanned latigo leather, ½-inch wide, length, 3 feet. Shipping weight, per dozen, 8 ounces.
95 C 859—Each........... **$ .10**
Per dozen **1.10**
95 C 860—Length, 6 feet, shipping weight, per dozen, 1 pound, 2 ounces.
Each .... **$ .20**
Per dozen.................. **2.20**

Stirrup Leathers

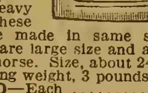
Russet leather, length, 4½ feet, with buckle. Shipping weight, per pair, 13 ounces.
95 C 849—1 inch. Per pair.... **95¢**
95 C 850—1¼ inch. Shipping weight, 18 ounces. Per pair........... **$1.49**

Woven Saddle Blanket



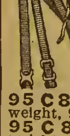
Woven Saddle Blankets. Made of dark gray hair mixture fabric. Cooler to a horse's back than any other style. An excellent selection for hard and constant riders. Will shape itself to the horse's back, and when kept dusted and clean will never gall the animal. Size, 27 inches long. Shipping weight 2 pounds, 10 ounces.
95 C 3220—Each......... **$1.98**

Quilted Saddle Blanket

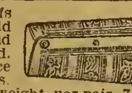


Quilted Saddle Blanket. Made of heavy old gold colored drill, stuffed, and quilted with heavy thread. These blankets are made in same style as sweat pads, are large size and are very easy on the horse. Size, about 24 inches long. Shipping weight, 3 pounds.
95 C 3200—Each............ **90¢**

Bridle Reins



Oiled Russet Riding Bridle Reins. With metal loops. Quirt ends 6 feet long.
¾ inch wide. Shipping weight, per pair, 8 ounces.
95 C 831—Per pair .... **85¢**
95 C 832 — ⅞ inch wide. Shipping weight, 9 ounces. Per pair...... **95¢**
95 C 833 —1 inch wide. Shipping weight, 12 oz. Per pair....... **$1.10**

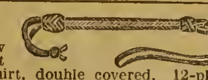


These Riding Cuffs are made of solid Russet leather and are all-over stamped. Closed with three patent snap buttons. Length, 7 in. Ship. weight, per pair, 7 oz.
95 C 820 —Per pair........ **$1.35**

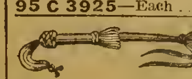
Riding Cuffs

Made of solid Russet leather, all-over-stamped, thong laced on the upper ends, one patent snap button on each lower end. Length, 7 inches. Shipping weight, per pair, 8 ounces.
95 C 821 —Per pair....... **$1.45**

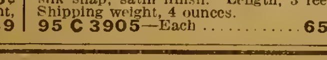
Riding Quirts



Our new shot loaded quirt, double covered. 12-plait French calf, white and Russet checked handle and striped 3 leather buttons and loop handle. Length of body, 20 inches. Total length of quirt, 36 inches. Shipping weight, 12 ounces.
95 C 3925—Each **$1.60**



Fine 6-plait, braided calfskin, shot loaded, two tassels. Length of body, 18 inches; total length of quirt, 31 in. Weight, 10 oz.
95 C 3915—Each............ **90¢**



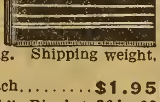
Fair thread covered, 6-plait maroon and white handle, japanned cap half silk snap, satin finish. Length, 3 feet. Shipping weight, 4 ounces.
95 C 3905—Each .... **65¢**

Ward's Saddle Blankets

Our saddle blankets are well made and will stand the wear. Priced very low for this qaulity.

See our new and complete line of high grade stable blankets on Page 653.

A Reversible Blanket

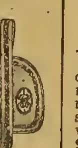


Saddle Blanket, 36 by 60 inches, gray blue body with red stripes. Cotton and wool mixture. When folded, blanket is 36 inches deep and 30 inches long. Shipping weight, 2 pounds.
95 C 3215— Each......... **$1.95**
95 C 3216—Saddle Blanket, 36 by 66 inches reversible, brown mixed body with green and white stripes. Cotton and wool mixture. Shipping weight, 3 pounds. Each.............. **$2.50**

Lariat Ropes

Extra quality silk finished lariats made of the strongest light color Manila hemp obtainable, with solid brass hondas.
Length, 35 feet. Shipping weight, 2½ pounds.
95 C 3364............ **$2.28**
95 C 3365—Length, 40 feet. Shipping weight, 2¾ pounds....... **$2.48**
95 C 3368—Length 45 feet. Shipping weight, 3 pounds....... **$2.75**

Saddle Fenders



Fenders of russet leather. about 13 inches long, with 1½ inch stirrup leathers attached. Made to buckle. Shipping weight, per pair, about 3½ pounds.
95 C 835—Per pair, (for one saddle)....... **$3.65**

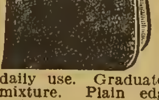
Heavy Grade Saddle Fenders

Heavy russet leather fenders about 15 inches long, and 9 inches wide, with 2½-inch stirrup leathers attached. Lined at end and made to lace. Shipping weight, per pair, about 4 pounds.
95 C 836—Per pair, (for one saddle)......... **$6.95**

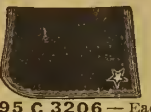
Latigo Straps

Latigo Straps, 2 inches wide, for buckle cincha rig. Cut from the best Oregon oiled skirting, with lace strings to fasten. Length for draw side, 5 feet, 6 inches. Shipping weight, per pair, 1¼ pound.
95 C 842—Per pair. **$2.15**
95 C 843 — Length for off side, 16 inches when doubled and 2 inches wide. Shipping weight, per pair, 10 ounces. Per pair **$1.45**

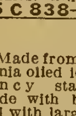
Gray Felt Mixture Blanket



This is a good, strong, warm blanket to be used with a heavy saddle. It will stand the hard and constant wear of daily use. Graduated plain gray felt mixture. Plain edge and California style. Length, 30 inches. Shipping weight, 2 pounds.
95 C 3240—Each......... **$2.55**



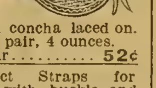
Saddle Blankets. Gray felt mixture, star in corner medium grade, bound edge. Size, 24 inches long. Ship. weight, 15 oz.
95 C 3206 — Each........ **$1.10**
95 C 3207 — Same style blanket as above except better quality, with wide plain binding, Star in corner. Size, 24 inches long. Shipping weight, 1 pound. Each....................... **$1.50**



U. S. Army Saddle Bag

This U. S. Army Saddle Bag is made of the best grain leather, has two big pockets 12 by 12 inches, and is made to fit the McClellan Saddle, also used on other saddles. Ship. wt., per pair, 5½ lbs.
95 C 838—Per pair **$4.75**

Spur Strap



Made from California oiled leather fancy stamped; made with buckle and with large nickel concha laced on. Shipping weight, per pair, 4 ounces.
95 C 853—Per pair.......... **52¢**

Russet Straps for spurs, with buckle and billet. Shipping weight, per pair, 4¼ ounces.
95 C 852—
Per pair........... **45¢**

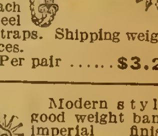
Texas pattern, oiled California leather, nickel ornaments and nickel buckles. For spurs with buttons and chain. Shipping weight, per pair, 4 ounces.
95 C 854—Per pair........... **42¢**

Stirrup Straps

Stirrup Straps, length 5 feet, 6 inches, with lace strings without fenders. Russet leather only. 2 inches. Shipping weight, per pair, 1 pound, 11 ounces.
95 C 845—Per pair **$3.10**
95 C 846 — 2½ ins. Wt., per pr., 2 lbs., 4 oz. Per pair **$3.98**
95 C 847—3-inch. Weight, per pair, 2 lbs., 8 oz. Per pair....... **$5.08**

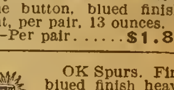
Latigoes for cincha rig with lace strings.
1¼-inches by 5 feet. Shipping weight, per pair, 12 ounces.
95 C 840—Per pair **$1.25**
95 C 841 — 1½ inches by 5 feet. Shipping weight, per pair, 14 ounces.
Per pair **$1.55**

Cotton Web Saddle Girth. Width, 3 inches; length, 3½ feet with 1¼-inch buckle on each end. Wt., 5 oz.
95 C 862—Each .... **40¢**



Fine nickel plate finish with fancy chasing, shaped heel band 1⅞-inch fancy pattern malleable rowels, one button on each side and heel chains; without straps. Shipping weight, per pair, 14 ounces.
95 C 3970—Per pair **$3.25**

Modern style, good weight band, imperial finish, one button and chain; 1⅝-inch steel rowels; without straps. Wt., per pair, 10 oz.
95 C 3942—Per pair.... **90¢**



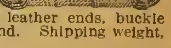
Heavy malleable steel heel bands, 2 - inch shanks, 2 - inch malleable steel rowels, only made with one button, blued finish. Shipping weight, per pair, 13 ounces.
95 C 3950—Per pair...... **$1.85**

OK Spurs. Fine blued finish heavy heel band, one button and chain, 1½ - inch steel plate rowels; without straps. Shipping weight, per pair, 13 ounces.
95 C 3946—Per pair **$1.10**

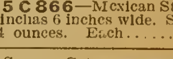
Solid Brass Riding Spurs (Number 9). Medium weight, ¾-inch steel plate rowels; without straps. Shipping weight, per pair, 4 ounces.
95 C 3930—Per pair........ **70¢**

Cinchas

California Style Cinchas; 20 strands; 4-cord; 2 bars; white hard hair; wool lined leather chafes and buckle tongue on each end. Weight, 1 pound 6 ounces.
95 C 870—Each........... **$1.70**



Hard laid white fish Cord, California strand 2 bars, 58 strand leather ends, buckle tongue on each end. Shipping weight, each, 1 pound.
95 C 868—Each........... **$1.52**
95 C 869—Same as above except without leather ends. Each..... **80¢**



Soft Hair Cinchas, plain grade, 4 inches wide. Shipping weight, 12 ounces.
95 C 864—Each.............. **48¢**
95 C 865—Soft Hair Cinchas, plain grade, 4 inches wide. Shipping weight, 12 ounces. Each .... **62¢**
95 C 866—Mexican String Hard Hair Cinchas 6 inches wide. Shipping weight, 14 ounces. Each................ **95¢**

Super Cotton Web Surcingles, width, 3 inches. 1-inch strap and buckle regular size. Shipping weight, 1 pound.
95 C 3445—Each............ **50¢**

Good ventilation means healthy stock. Barn Cupolas are on Page 606

Ward's New Line of Collars
Made in Our Own Factory

The Norman Truck
Draft about 18 inches.

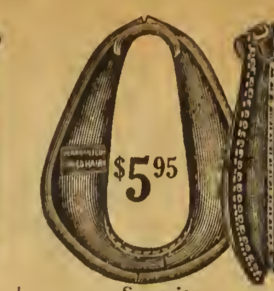
A new product of the Wardway factory, extra heavy, of selected cowhide leather. The Norman collar is made wide at the top and is designed for horses with thick necks. It is the highest grado collar of its kind. Particular attention has been given to its materials and workmanship.

Has a hair pocket heavy rim, solid one-piece black back and rim, russet face, ⅜ inch wide ribbon outside seam, and thong middlo seam. Rivet cap finish, billet thonged on, sole leather pad. Shipping weight, about 8 pounds.

595 C 951—Sizes, 18 to 20 inches. Each........ **$5.95**
595 C 952—Sizes, 21 and 22 inches. Each........ **$6.35**
595 C 953—Size, 23 inches. Each **6.95**
595 C 954—Size, 24 inches. Each **7.75**

Madison
Draft about 18 inches.
This is our highest grade imitation case truck or dray collar, built to give long service. Hair pockot, all russet cowhide faco, back and rim. Back in one piece. Ribbon thong stitching throughout, wide welt. 1¼-inch bucklo and billet top, thong sewed on. Solo leather collar pad buckled on with two straps. Shipping weight, about 10 pounds.

595 C 940—Sizes, 18 to 20 inches. Each........ **$7.95**
595 C 941—Sizes, 21 and 22 inchos. Each........ **$8.40**
595 C 942—Size, 23 inches. Each........ **$9.15**
595 C 943—Sizo, 24 inches. Each........ **$9.95**

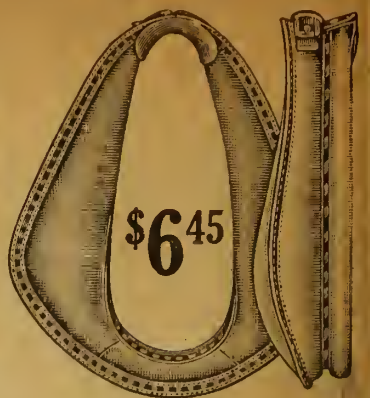


Superior
Draft about 17 inches.
A collar built to givo long and satisfactory wear. Has a hair pocket and is made of black cowhide back and rim, face is double. The outer face of kangaroo grain leather is soft, thong stitched on billet and solo leather pad. Has heavy rim and good hame room. Shipping weight, about 7½ pounds.

595 C 945—Sizes, 18 to 20 inches. Each........ **$5.95**
595 C 946—Sizes, 21 and 22 inches. Each........ **$6.45**
595 C 947—Size, 23 inches. Each........ **$6.95**
595 C 948—Size, 24 inches. Each........ **$7.65**

The Regal
Draft about 17 inches.
Has a hair pocket and made of all russet cowhide, half sweeney, throatless. Russet face, back and rim. Heavy leather thong-sewed wear leather on back, heavy rim. The throat is mado with layers of cowhide stitched together and thong-sewed to rim. An excellent value in an all russet half sweency stylo flexible throat collar, a wido draft and heavy rim. Shipping weight, about 7 pounds.

595 C 965—Sizes, 18 to 20 inches. Each........ **$5.75**
595 C 966—Sizes, 21 and 22 inches. Each........ **$5.95**
595 C 967—Size, 23 inches. Each........ **$6.70**



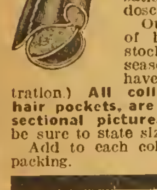
Northwest "All Russet"
Draft about 18 inches.

The Northwest All Russet Collar is another new product of the Wardway Factory. It is an extra heavy collar and made exceptionally strong. Embodies the features of an 18-inch draft and a hair pocket. You will find it has every merit that a high grade collar should have.

Made of the best grade of cowhide leather, with heavy rim, solid one-piece russet back and russet face and rim, ⅜ inch wide ribbon outside seam, thong middle seam, rivet cap finish, 1¼ inch billet, thonged on, and sole leather pad. An extra heavy and high grade collar for long service. Shipping weight, about 8 pounds.

595 C 956—Sizes, 18 to 20 inches. Each........ **$6.45**
595 C 957—Sizes, 21 and 22 inches. Each........ **$6.65**
595 C 958—Size, 23 inches. Each **7.05**

Facts About Ward's Collars



Ward's collars are made in our own Factory. They are guaranteed for long and satisfactory service. Note tho doscription of each collar.

Our full kip collars are made of best grade collar leather stock, Stuffed with thoroughly seasoned long rye straw, and have **hair pockets** (See illustration.) **All collars described as having hair pockets, are made as shown in small sectional picture.** In ordering a collar, be sure to state size wanted.

Add to each collar 2 to 2½ pounds for packing.

Good Grade Buggy Collars
Made of best kip leather. Leather top pad, one buckle on top. Wear leathers at Draft. Has no hair pocket, but is strictly first-class in every respect. Sizes, 16 to 22 inches. Average weight, 5 pounds.

595 C 1000—Each........ **$3.20**
595 C 1001—Same style as above except made of all black split leather. Each. **$2.10**

Excelsior
Draft about 16½ inches.
Has a hair pocket and made with Kangaroo grain leather face, black kip leather, rim and back. Has ⅜-inch ribbon thong seams on outside, reinforced with lock stitch machine seams. Thong-sewed in the middle. Extra wear leather on back, sole leather pads. Buckle and billet top. This is an all black collar of exceptional value. Shipping weight, 6½ pounds.

595 C 961—Sizes, 17 to 20 inches. Each........ **$5.50**
595 C 962—Sizes, 21 and 22 inches. Each........ **$5.70**
595 C 963—Size, 23 inches. Each........ **$6.45**

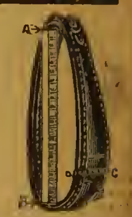
Standish
Draft about 16½ inches.
Has a hair pocket and made of full kip cowhide, half sweeney, russet face, black back and rim, reinforced with extra throat piece. Extra wear leather on back, extended welt sole leather pads, and thong-sewed throughout, buckle and billet top. To fit horses with heavy necks. Rivet cap finish. Shipping weight, about 7 pounds.

595 C 974—Sizes, 17 to 20 inches. Each........ **$4.90**
595 C 975—Sizes, 21 and 22 inches. Each........ **$5.00**
595 C 976—Size, 23 inches. Each........ **$5.80**

Colonel
Draft about 16½ inches.
Has a hair pocket and made of full kip cowhide. Thong-sewed throughout. Russet face, black back and rim. Extra wear leather on back, reinforced with extra throat piece, extended face to edge with extra row of stitching. Sole leather pad, and buckle and billet top. Rivet cap finish. Shipping weigbt, about 6½ pounds.

595 C 970—Sizes, 17 to 20 inches. Each........ **$4.95**
595 C 971—Sizes, 21 and 22 inches. Each........ **$5.00**
595 C 972—Size, 23 inches. Each........ **$5.75**

Instructions For Measurements



An ill-fitting collar causes many sore spots from rubbing and pressure; it does not allow the horse to put full strength into the work. Be fair to each horse, and when ordering make sure to get the right measurements. The size of a collar is found by measuring the length in inches from top (A) to bottom (B), measurements taken on the inside, as shown in the illustration. The draft of a collar is found by measuring the circumference in inches, the heavy part of the collar (C) and (D) as illustrated. Be careful to take exact figures, for our collars are made accurately, and we give you just what you ask for.

By following the instructions closely, you may make comparisons which will be of value and will insure your getting a proper fit for your horses when you send in your order.

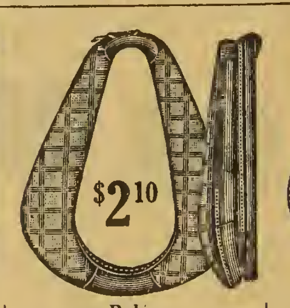
Repeater
Draft about 15 inches.

One of our most popular collars. It is guaranteed to give complete satisfaction. Heavy black split leather back and rim, with heavy pearl grey, chrome leather face, thong-sewed throughout. Sole leather pad. Buckle and billet top, heavy rim, and extra wear leather on back. Has no hair pocket. Shipping weight, about 7 pounds.

595 C 978—17 to 20 inches. Each........ **$3.55**
595 C 979—21 and 22 inches. Each........ **$3.65**
595 C 980—23 inches. Each........ **3.95**

Popular
Draft about 16½ inches.
Made half sweeney style, of heavy black split leather back aud rim. Thong-sewed throughout. Double ticking, making a strong and soft face. Rye straw stuffed. Extra heavy wear leather. Buckle and billet top. Reinforced throat. This well made collar has a good large draft. Shipping weight, about 6¼ pounds.

595 C 981—Sizes, 17 to 20 inches. Each........ **$3.25**
595 C 982—Sizes, 21 and 22 inches. Each........ **$3.35**
595 C 983—Size, 23 inches. Each........ **$3.75**



Baker
Draft, about 14½ inches.
Plow collars must be comfortable to ensure the maximum amount of work from horses. This model, as well as all our other collars, is designed to fit comfortably and avoid the troubles which arise from annoying irritations.

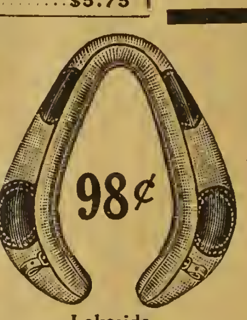
Medium weight, made with black, split leather back and rim. Baker cloth face, easy-opener buckle top. Has no hair pocket. Shipping weight, about 5½ pounds.

595 C 989—Sizes, 17 to 20 inches. Each........ **$2.10**
595 C 990—Sizes, 21 and 22 inches. Each........ **$2.30**

General
Draft about 16½ inches.

Heavy Black Split Leather Back and Rim—Thong-sewed throughout. Double ticking face, making strong and soft face. Rye straw stuffed. Extra heavy wear leathers. Buckle and billet top. Reinforced throat with extra throat piece. Shipping weight, about 7 pounds.

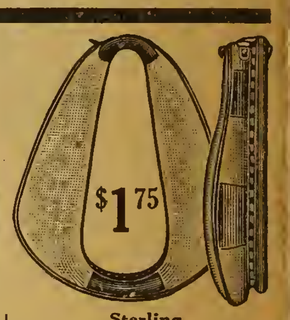
595 C 985—Sizes, 17 to 20 inches. Each........ **$3.35**
595 C 986—Sizes 21 and 22 inches. Each........ **$3.45**
595 C 987—Size, 23 inches. Each........ **$3.85**



Lakeside
Draft, about 15 inches.

Heavy white duck with open bottom. When used will set to neck and come together. Stuffed with clean cotton fiber. Made with wear leathers at draft and line ring chafe. Shipping weight, about 7 pounds.

595 C 995—Sizes, 17 and 18 inches. Each........ **98¢**
595 C 996—Sizes, 19 and 20 inches. Each........ **$1.04**
595 C 997—Sizes, 21 and 22 inches. Each........ **$1.10**
595 C 998—Size, 23 inches. Each........ **$1.14**
595 C 999—Size, 24 inches. Each........ **$1.19**



Sterling
Wide Draft Collar about 17½ inches, made of extra heavy white duck, with split leather rim, wear leathers, and line ring protectors. Pressed sole leather pad. Stuffed with clean, fine-cut rye straw. Rim stuffed with long straw. Buckle and billet top. No hair-pocket. Shipping weight, about 8 pounds.

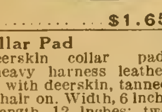
595 C 991—Sizes, 17 to 20 inches. Each........ **$1.75**
595 C 992—Sizes, 21 and 22 inches. Each........ **$1.95**
595 C 993—Size, 23 inches. Each........ **$2.15**
595 C 994—Size, 24 inches. Each........ **$2.45**

Large Hame Housing

Of good grade black leather, lined; two rows of stitching all around the edge with pure linen thread. This is a large hame housing and made exactly as shown in illustration. Size, 12 by 16 inches on each side. Shipping weight, 3½ pounds.

95 C 690—Each **$4.55**

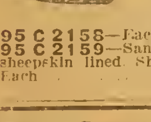
Brass Trimmed Housing



Large Brass Trimmed Collar Housings for heavy dray collars. Made of heavy harness leather with large brass spots around edge. Size, 8½ by 14 inches. Shipping weight, 12 ounces.

95 C 691—Each........ **$1.65**

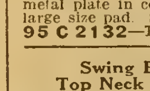
Deerskin Collar Pad



Deerskin collar pad, of heavy harness leather lined with deerskin, tanned with hair on. Width, 6 inches; length, 12 inches; two ¾-inch straps, length, 18 inches, to buckle around collar. Shipping weight, 7 ounces.

95 C 2158—Each........ **95¢**
95 C 2159—Same as above except wool sheepskin lined. Shipping weight, 7 ounces. Each........ **94¢**

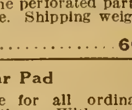
Sole Leather Top Collar Pad



This is an excellent sole leather collar pad and made of the best quality of leather. Heavy pressed sole leather, top collar pad for use under heavy collars, metal plate in center and two straps. This is a large size pad. Shipping weight, 5 ounces.

95 C 2132—Each........ **35¢**

Swing Back Top Neck Pad



The Patent Swing Back Top Neck Pad. These Pads are made of heavy sole leather perforated in the center, flexible and self-adjusting. The perforated part is clear of the neck of the horse. Shipping weight, 11 ounces.

95 C 2164—Each........ **60¢**

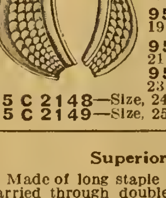
All Zinc Collar Pad

Suitable for all ordinary horse collars. With straps to attach to collar. This is a large size pad. Shipping weight, 8 ounces.

95 C 2125—Each... **41¢**

Repair your own Harness, See Tools listed on Page 657

Yellow Sweat Pad

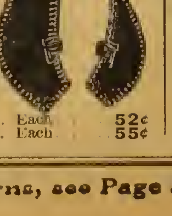


This well made yellow sweat pad, about 12 inches across draft; 4 hooks, 5 rows quilting, stuffed with composite stuffing. Shipping weight, about 2½ pounds.

Order Sweat Pads 1 inch longer than horse's collars.

95 C 2145—Sizes, 18 and 19 inches. Each........ **39¢**
95 C 2146—Sizes, 20 and 21 inches. Each........ **43¢**
95 C 2147—Sizes, 22 and 23 inches. Each........ **47¢**
95 C 2148—Size, 24 inches. Each........ **51¢**
95 C 2149—Size, 25 inches. Each........ **56¢**

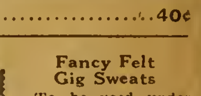
Superior Sweat Pad



Made of long staple wool, carried through double burlap by slender needles thus perforating the fabric and making a durable and sanitary pad. About 10 inches wide, with 4 hooks. Sizes, 18 to 25 inches. Shipping weight, ¾ pound.

95 C 2153—Sizes, 18 and 19 inches. Each........ **45¢**
95 C 2154—Sizes, 20 and 21 inches. Each........ **47¢**
95 C 2155—Sizes, 22 and 23 inches. Each........ **50¢**
95 C 2156—Size, 24 inches. Each........ **52¢**
95 C 2157—Size, 25 inches. Each........ **55¢**

Hair Collar Pad

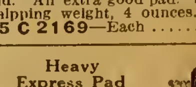


Natural black color. These pads are both humane and sanitary.

Made of hair with five rows of stitching, with strap on each end. Size, width, 7 inches, length, 10 inches. Shipping weight, 5½ ounces.

95 C 2118—Each........ **40¢**

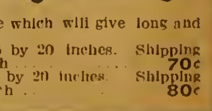
Fancy Felt Gig Sweats



To be used under saddles of both single and double buggy harness. Gray felt mixture, with a patent leather top and a strap at each end. An extra good pad. Size, 4½ by 18 inches. Shipping weight, 4 ounces.

95 C 2169—Each........ **35¢**

Heavy Express Pad



Heavy gray felt mixture pads, to use under heavy saddle on Express harness with straps at each end. A well made pad and one which will give long and satisfactory service.

95 C 2166—Size, 6 by 20 inches. Shipping weight, 8 ounces. Each........ **70¢**
95 C 2167—Size, 7 by 20 inches. Shipping weight, 10 ounces. Each........ **80¢**

For Storm-proof Lanterns, see Page 527

Horse Brushes

Solid russet leather back, buckle on hand strap. Large oval face, with nineteen rows of stiff yellow bristles, brass wire drawn. Size, 8¾ inches by 4½ inches. Shipping weight, 12 ounces.
95 C 6675—Each.... **$3.55**

All bristles are guaranteed brass wire drawn, in this russet leather Horse Brush. Back stitched around edge, wide leather handle. Size, 8¾ inches by 4⅝ inches. Shipping weight, 12 ounces.
95 C 6670—Each....... **$1.90**

Steel Wire Horse Brush. Size, 3½ inches by 8 inches. Length of wire, about 1⅝ inches. Shipping weight, 13 ounces.
95 C 6655—Each........ **90¢**

This style of brush has an oval shape leather back heavy harness leather strap. Eleven rows of stiff black, imported tampico fiber. Size, 9 inches by 4¾ inches. Shipping weight, 9 ounces.
95 C 6615—Each......... **60¢**

Filled with good quality of brown India fiber. Oval shape hardwood back. Size, 8¼ inches by 3¾ inches; leather handle. Shipping weight, 11 ounces.
95 C 6605—Each........ **30¢**

Bristles of Mexican rice root, white maple backs, finished with shellac. Leather finger guards on each side of brush. Length, 10 inches. Shipping weight, 14 ounces.
95 C 6620—Each......... **65¢**

Made on genuine leather back with fifteen rows of stiff black Chinese bristles, brass wire drawn. Back and strap are made of heavy black grain leather. Size, 9 inches by 4½ inches. Shipping weight, 8 ounces.
95 C 6665—Each..... **$1.20**

Oval shape, flat face Horse Brush. Eight rows gray tampico center and white outside. Embossed back with good leather strap. Size, 8½ inches by 4½ inches. Shipping weight, 7 ounces.
95 C 6600—Each......... **42¢**

Riding and Driving Bits

U. S. Regulation. Made of wrought steel. Fine blued finish. Length of cheeks, 8 inches, length of mouth bar, 5 in., only one size or shape. Ship. weight, 1¼ pounds.
95 C 3725—Each. **$2.45**

Low priced but very satisfactory. Made strong and of good material. XC (white) metal plated Kentucky Short Cheek Racking Bits with short port on mouth bar. Shipping weight, 8 ounces.
95 C 3710—Each..... **30¢**

Kentucky Racking Bits. Heavy mouth bar with short port, solid bottom bar to prevent the cheeks from spreading. Nickel plated finish. Shipping weight, 10 ounces.
95 C 3715—Each.. **$1.00**

Our new style Malleable Western Riding Bit, a style well known among horsemen; has large rings, no roller on port, finely nickel plated with bright finish. Shipping weight, 9 ounces.
95 C 3745—Each ... **68¢**

XC (white) metal plated Cowboys' Curb Bits, with roller and rein chains. This is a good bit for such a low price and will give unlimited satisfaction. Shipping weight, 18 ounces.
95 C 3765—Each....... **$1.10**

Hand Forged Steel, large rings on the upper and lower ends. Mouthbar length, 5 inches, and has a V-shaped port in the center. Fine burnished finish. Shipping weight, 1 pound.
95 C 3755—Each..... **$1.75**

Flexible rubber-mouth Driving Bits, nickel plated, half cheek snaffles. Shipping weight, 8 ounces.
95 C 7570—Each......... **65¢**
95 C 7571—Flexible leather mouth bridle bits, nickel plated, half cheek snaffles. Shipping weight, 8 ounces. Each......... **66¢**

It is unexcelled for pullers and vicious horses. Fine XC (white) metal plate. Ship. weight, 12 ounces.
95 C 7518—Each........ **30¢**
95 C 7519—Same as above except fine nickel-plated. Shipping weight, 12 ounces. Each........ **65¢**

Stiff - mouth 2¾-inch rings, 6-inch mouth bar, heavy for work harness. XC, (tinned). Shipping weight, 10 ounces.
95 C 7500—Each...... **15¢**
95 C 7505—Jointed mouth, XC (tinned). Shipping weight, 10 ounces. Each..... **17¢**

Single Twisted Wire Bits jointed mouth, 2½-inch rings, XC (white) metal plated. Shipping weight, 6 ounces.
95 C 7545—Each...... **21¢**
95 C 7546—Same as above except double twisted. Shipping weight, 7 ounces. Each...... **24¢**

Used effectively to break horses of the habit of hanging the tongue out of the side of the mouth. XC (white) metal. Shipping weight 15½ ounces.
95 C 7525—Each...... **65¢**

Nickel plated loose bar, sliding cheeks; for buggy harness. Shipping weight, 17 ounces.
95 C 7565—Each... **.90¢**

Hard Mouth Bit

A bit for a hard-mouthed horse or mule. It is jointed and known as a saw bit. XC (white) metal finish. Shipping weight, 12 ounces.
95 C 3716—Each.......... **55¢**

The most practical, humane and safest driving bit; XC (white) metal plate. Shipping weight, 1 pound.
95 C 7530—Each .... **85¢**

Double twisted Wire Bits, jointed mouth, half cheek snaffles. XC (white) metal plated. Shipping weight, 7 ounces.
95 C 7547—Each......... **27¢**

Outside rings, 2½ inches; inside rings, 1½ inches. Fine XC (white) metal, plated. Shipping weight, 10 ounces.
95 C 7550—Each......... **26¢**

XC (white) metal. plated. In this bit there is comfort and control; it is a positive preventiou for the worst side-puller. Shipping weight, 17 ounces.
95 C 7535—Each....... **$1.25**

Tampico "Dandy" or Dandruff Brush. These brushes are made from a fine grade of gray tampico, especially prepared. Shipping weight, 15 ounces.
95 C 6610—Each........ **70¢**

Fiber Brush
Solid hardwood back, filled with India fiber, trimmed 1¾ inch clear of the block. Length, 9½ inches. Shipping weight, 10 ounces.
95 C 6630—Each........ **30¢**

Wire Brush
Wood back. Length, 9 inches; length, of steel teeth, about 1⅛ inches. Shipping weight, 10 ounces.
95 C 6645—Each........ **85¢**

Lacing Strings
Lacing strings, assorted lengths and widths. Shipping weight, 1 pound
95 C 8170.... **50¢**

Osborne Steel Compass

Tool Steel Compasses. Osborne's best make, for channeling leather so that the stitches will be below the surface. Can be adjusted by means of a set screw. Length, 4¾ inches. Shipping weight, 1 ounce.
95 C 8217—..... **$1.20**

Roaching Shears
Made of laid steel and perfectly uniform in temper which makes them keep an even cutting edge. Especially made for trimming horses' manes, tails and fetlocks. Length, about 7½ inches. Shipping weight, each, 7½ ounces.
95 C 6785—Each..... **$1.65**

Handy Horse Clippers
Nickel plated steel. For those having only occasional use for clippers of this style. Shipping weight, each 6 ounces.
95 C 6763—Each....... **$1.48**
Extra upper plates. Each......... **.45¢**
Extra lower plates Each.......... **65¢**
Extra springs Each.......... **18¢**

New Market pattern high - grade Horse or Dog Clippers. A practical and durable clipper. Shipping weight, each 1 pound.
95 C 6764—Each....... **$3.00**
Extra upper plates. Each....... **$1.00**
Extra lower plates. Each....... **$1.75**

Trimming Knife
High grade square point Trimming Knife, fine steel blade, turned wood handle. Shipping weight, 2½ ounces.
95 C 8234.................. **25¢**

Finishing Wheels
Revolving Finishing and Overstitch Wheel, also used for Pricking. Osborne's make; round shank, black handle; Nos. 5 and 6. The number means the number of stitches to the inch. Shipping weight, 2½ ounces.
95 C 8190—Size 5....... **$1.30**
95 C 8191—Size 6....... **1.30**

Creaser
Single Edge Creaser for harness makers. An Osborne tool. Size 3. Shipping weight, 1⅓ ounces.
95 C 8206.................. **73¢**

Channeler for Harness Making
Channeler for harness-makers' For cutting channels for stitches in traces and other strap work. Shipping weight, 5½ ounces.
95 C 8262.............. **$1.95**

Edge Tool
Edge Tool used for removing the sharp corners from new strap work; 5 inches long. Shipping weight, 1½ ounces.
95 C 8229................. **28¢**

Gauge Knife
Gauge Knife, hollow iron handle. Osborne's well-known make. Very strong and substantial. Will cut from ⅛ to 4 inches. Same as used by harness makers. Shipping weight, 1¼ pounds.
95 C 8257.............. **$1.80**

Black Wax
Black Wax, used by harness-makers and shoemakors for making wax ends. Weight, per ball, 1 ounce.
95 C 8279—Per ball........ **2¢**
95 C 8280—Per dozen balls.. **18¢**

Thread
Harness or Shoe Thread. No. 10 half bleached linen thread. American Standard natural linen color. Weight per ball, 2 ounces.
95 C 8284—Per ball..... **$ .40**
8 balls (one pound)......... **3.10**

Rex Riveting Machine
Made of best malleable iron with case-hardened steel plunger and automatic adjustment for different lengths of rivets. They are neatly finished, Japanned and are first class machines in every way; will set No. 1 tubular rivets or split rivets as easily and as well as any of the higher priced machines. Height, 6½ inches. Shipping weight, 2½ pounds.
95 C 8140.................... **95¢**

Tubular Rivets
No. 1. Japanned Tubular Rivets for repairing or new work. Put up in small boxes containing 100 rivets of assorted sizes from 3/16 inch to ¼ inch. Shipping weight per box, 4 ounces.
95 C 8163—Per box of 100...... **21¢**
Same rivets only put up in boxes of 100 rivets of one size. Be sure to state size wanted. Average shipping weight, per box, 5 ounces.
95 C 8146—3/16 Size........... **16¢**
95 C 8147—5/16 Size........... **19¢**
95 C 8148—6/16 Size........... **21¢**
95 C 8149—7/16 Size........... **23¢**
95 C 8150—8/16 Size........... **24¢**
95 C 8151—9/16 Size........... **25¢**

Revolving Spring Punches
The tubes which are in 6 assorted sizes are driven in—cannot be replaced. (For punches with removable screw tubes, see below.) Shippping weight, 12 ounces.
95 C 8168............ **$1.20**

Punches with Removable Screw Tubes
Revolving Spring Punches. Removable screw tubes to fit Nos. 1, 2, 3, 4, 5 and 6 in each punch. Highest grade steel. Shipping weight, 14 ounces.
95 C 8174............ **$1.55**
95 C 8175—Extra screw tubes to fit No. 95 C 8174. **State size.** Each.. **16¢**

Myer's Sewing Awl
Packed complete with one straight and one curved needle, one reel waxed thread, small wrench and screw driver combined. Complete set of directions included. Shipping weight, 3 ounces.
95 C 8113—Each.............. **60¢**
95 C 8114—Straight needles.each **8¢**
95 C 8115—Curved needles.each **8¢**
95 C 8116—Beeswax for waxing thread per cake.................. **12¢**
95 C 8112—One-quarter pound tubes of thread for filling spools, per tube. **$1.20**
95 C 8117—Reels filled with thread. Each.......................... **17¢**

Harness Oil Blacking
Reliable Harness Oil Blacking. This preparation fills the cracks in old harness and makes the leather look like new. A combination of Neatsfoot and other Oils. A superior product for softening and preserving leather. Is jet black and will not smut or settle. In 1-quart cans. Shipping weight, per can, 2⅛ pounds.
595 C 8344—Per can......... **50¢**

Reliable Oil Neatsfoot Compound
Keeps your leather goods in the best of condition. Prevents the leather from becoming hard and stiff. Specially prepared in our Laboratory for use on harness fly nets, boots, shoes and all leather articles. This oil is of high quality. In quart cans. Shipping weight, per can, 2¼ pounds.
95 C 8300—Per can.......... **55¢**

Dipping Tank
Galvanized steel tank with heavy wire basket. Capacity, 30 gallons. Height of tank, 28 inches. Height of basket, 16 inches; Diameter, 19 inches. Shipping weight, complete, 35 pounds.
295 C 7385—Complete.... **$5.95**
295 C 7386—60 gallon size. Height, 30 inches. Height of basket, 16 inches; Diameter basket, 23 inches. Shipping weight, complete, 43 pounds. Complete.................. **$7.25**
Shipped from Factory in Chicago.

Circle Brand Harness Oil
The addition of Circle Brand Neatsfoot and Kid Oil keeps leather soft, pliable and entirely waterproof. Used to good advantage on any leather surfaces exposed to weather. ½-gallon cans. Shipping weight, 4½ pounds.
95 C 8331—Per can........ **50¢**
195 C 8332—One-gallon cans. Shipping weight, 8½ pounds. Per can................ **80¢**
195 C 8333—Five-gallon cans. Shipping weight, 43 pounds. Not mailable. Per can......... **$2.80**

Reliable Harness Dressing
Made especially for refinishing harness, fly nets, and traveling bags. Imparts a beautiful, soft jet black luster which will not smut or peel off and does not lose its color. Put up in 1-quart caus. Shipping weight, per can, 2¾ pounds.
95 C 8305—Per can........ **80¢**

Reliable Harness Soap
A first class dressing that oils, softens, preserves and beautifies harness. It is jet black, and a Soap Dressing which will not shrink or mould the leather. 1-pound box. Shipping weight, 1¼ pounds.
95 C 8315—Per box........ **35¢**
95 C 8316—2½-pound box. Shipping weight, 3 pounds. Each.... **65¢**

Harness Makers' Horse
Harness-makers' Stitching Horse. Seat, lever and rounds made of Missouri Hickory with jaws of hard Maple. Without jaw strap. Shipping weight, 18 pounds.
195 C 8273—Each **$5.95**
95 C 8274—Jaw Strap (weight, 8 ounces). Each.......................... **90¢**

Reliable Metal Polish
For cleaning and polishing brass, copper, nickel, tin, silver, gold, zinc, such as brass signs, railings, harness trimmings, show cases and many household articles. Does not leave deposits in corners and crevices, nor will it stain or deface woodwork. 1 pint cans. Shipping weight, 17 ounces.
95 C 8349—Per can.......... **40¢**

Standard Hoof Oil
Effective in healing barb wire scratches, cuts, wounds, galls and for foot rot or thrush. Will preserve a healthy condition of the feet. ½ gallon, shipping weight, 4 pounds.
95 C 8325—Per can.......... **65¢**
1 gallon, shipping weight, 8 pounds.
195 C 8326—Per can....... **85¢**

Horse Blanket Pin
All steel blanket pins 3½ inches long. Shipping weight, per dozen, 10 ounces.
595 C 7400—Per ½ dozen... **15¢**
Per dozen.................... **29¢**

Curry Combs

Patent Circular Curry Comb. Extra heavy steel shank passes through handle and knockers are of riveted steel. This is one of the highest grade comb of its kind on the market. Ship. wt., 11 oz.
95 C 6726—Each **28¢**

All steel 8 bar riveted shank passing through handle and riveted. Black enameled handle, steel ferrule. All steel scraper riveted to comb. Shipping weight, 9 ounces.
95 C 6736—Each **31¢**

Humane Galvanized Steel Curry Comb. Self-cleaning; no hair can stick to the teeth or clog between bars. Slightest tap on its face cleans it. Solid leather handle. Size, 6¼ inches by 4¼ inches. Ship. weight, 6 ounces.
95 C 6705—Each.......... **15¢**

Mane Comb Shedder and sweat scraper combined. A good strong iron Mane Comb, with a rubber shedder or sweat scraper 5¾ inches long on the back. Far superior to a wooden sweat scraper. Ship. wt., 8 oz.
95 C 6700—Each.......... **23¢**

Horse or Mule Shears
Horse or Mule Shears with curved blades for trimming manes, tails, or around fetlocks. Half polished blades made from a high grade of shear steel which has been tempered by a patent process. This is a shear that has always given satisfaction. Shipping weight, 7 oz.
95 C 6780.... **42¢**

Warranted 8-bar, extra heavy steel. Wrought iron shank passes through enameled handle and riveted. A satisfactory comb which will stand hard wear. Shipping weight, 8 ounces.
95 C 6746—Each......... **23¢**

Harness Menders
Belt Menders and shoe sole savers. Package contains three dozen menders in three sizes. For putting on buckles, mending lines and other strap work. Shipping weight, per package, 6 ounces.
95 C 8119—Per package....... **$ .30**
Per dozen packages.............. **3.00**

Black Harness Leather
BACK
BELLY

This leather is bark tanned, made in the old-fashioned way.
Due to the uncertainty in the leather market we reserve the right to change the price of harness leather without notice.
Diamond "B" Grade Harness Leather. Whole sides only. Weight, from 15 to 21 pounds.
595 C 8109—Per pound.... **52¢**
595 C 8110—Diamond "W" "B" Grade Trace Leather, 22 to 24 pounds, whole sides. Per pound....... **54¢**
595 C 8111—Harness Leather Bellies in pieces. Average weight, from 3½ to 5 pounds. Used for repair purposes. Per pound............ **32¢**
595 C 8118—Diamond W Backs only. No. 1 Grade Harness Leather. Weight, from 13 to 16 pounds. Per pound.......................... **67¢**
595 C 8121—Diamond W Backs only. Trace leather. Weight, from 16 to 19 pounds. Per pound. ..**69¢**

Awl Handle
Patent Awl Handles. Awls held securely in place by metal cap that screws on the awl socket. You can change awls in a moment without breaking them. A small iron wrench which fits cap, with each handle. Price does not include awl blade. Ship. wt., 2 oz.
95 C 8185—Each.......... **30¢**

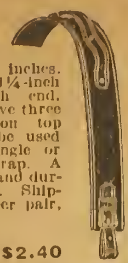
Awls, Handles, Harness Needles
Harness Needles, put up in papers of 25 needles, assorted sizes, 0 to 4. Weight, per package ¼ ounce.
95 C 8198—Per paper...... **12¢**
95 C 8199—Straight Harness Awl Blades small, medium and large sizes, assorted. Ship. wt., per doz. ½ oz. Per dozen awl blades.... **.30¢**
95 C 8220—Common Turned Sewing Awl. Handles. Shipping weight, 5 ounces. 3 for...... **10¢**

Collar or Drawing Awl
Collar Awls or Drawing Awls, made with large eye for sewing horse collars with leather thongs or whangs; very best material, turned wood handles. Length, 9 inches. Shipping weight, 2 ounces.
95 C 8212—Each....... **65¢**

Saddlers' Knife
Round Knives. Good quality steel, 5 inch blades, rosewood handles. Shipping weight, 2 ounces.
95 C 8252—Each.. **$1.40**

Reduced prices on Guaranteed Harness—See Pages 649 to 651

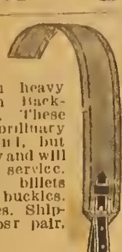
Leather Backband



Width, 3 inches. Length 3 feet; 1¼-inch billet on each end. These pads have three leather loops on top so they can be used with either single or double back strap. A very practical and durable backband. Shipping weight, per pair, 2½ pounds.

95 C 570—Per pair..... **$2.40**

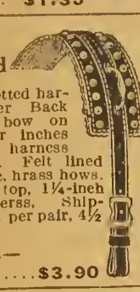
Web Backband



Made from heavy No. 0 cotton backband webbing. These are not the ordinary quality backband, but are extra heavy and will give years of service. Have leather billets and roller buckles. Width, 4 inches. Shipping weight, per pair, 11 ounces.

95 C 571—Per pair.... **$1.35**

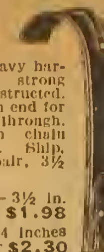
Superior Back Pad



Brass spotted harness leather Back Pad with bow on side. Four inches wide with harness leather top. Felt lined pinked edge, brass bows. Layer over top, 1¼-inch skirts to reverse. Shipping weight, per pair, 4½ pounds.

95 C 554—Per pair....... **$3.90**

Plow Backband

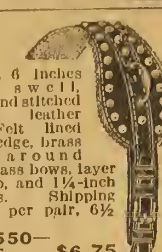


Made of heavy harness leather, strong and well constructed. Loops on each end for chains to pass through. Are used on chain trace harness. Ship. weight, per pair, 3½ pounds.

95 C 572—3½ in. wide. Per pair **$1.98**

95 C 573—4 inches wide. Per pair **$2.30**

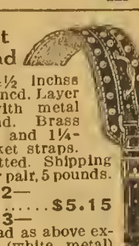
Back Pad



About 6 inches wide at swell, double and stitched harness leather top. Felt lined pinked edge, brass spotted around edge, brass bows, layer over top, and 1¼-inch skirts. Shipping weight, per pair, 6½ pounds.

95 C 550—Per pair...... **$6.75**

Comfort Back Pad

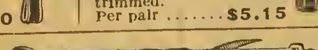


About 4½ inches wide, felt lined. Layer on top with metal dee in end. Brass side bows and 1¼-inch market straps. Brass spotted. Shipping weight, per pair, 5 pounds.

95 C 552—Per pair....... **$5.15**

95 C 553—Same pad as above except XC (white metal) trimmed. Per pair **$5.15**

Riveted Snap Hitching Strap



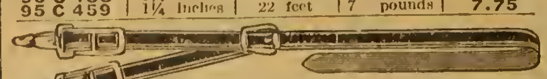
Black harness leather. Length, 7 feet.

Article No.	Width In.	Wt. Oz.	Each	Article No.	Width In.	Wt. Oz.	Each
95 C 648	¾ inch	7	43¢	95 C 650	1 inch	9½	55¢
95 C 649	⅞ inch	8½	49¢	95 C 651	1¼ inch	11½	68¢

Team and Buggy Lines

Leather is plump and runs even and sound throughout. Full sewed laps, has buckle and billet front ends, with leather loops. Japanned (black) buckles.

Article Number	Width	Length	Shipping Weight	Per Set
95 C 450	1 inch	15 feet	4¼ pounds	$4.65
95 C 451	1 inch	18 feet	5 pounds	5.25
95 C 452	1 inch	20 feet	5½ pounds	5.60
95 C 453	1 inch	22 feet	6 pounds	5.95
95 C 454	1⅛ inches	18 feet	5¼ pounds	5.89
95 C 455	1⅛ inches	20 feet	5¾ pounds	6.40
95 C 456	1⅛ inches	22 feet	6¼ pounds	6.75
95 C 457	1¼ inches	18 feet	6¼ pounds	6.70
95 C 458	1¼ inches	20 feet	6½ pounds	7.25
95 C 459	1¼ inches	22 feet	7 pounds	7.75



Japanned (black) buckles. Has safety buckles on ends and flat spring snaps. Reinforced laps. Sewed laps.

Article Number	Width	Length	Shipping Weight	Per Set
95 C 440	⅞ inch	18 feet	4½ pounds	$3.98
95 C 441	1 inch	15 feet	4½ pounds	3.95
95 C 442	1 inch	18 feet	4¾ pounds	4.65
95 C 443	1 inch	20 feet	5 pounds	4.95
95 C 444	1⅛ inches	18 feet	5¼ pounds	5.28
95 C 445	1⅛ inches	20 feet	5½ pounds	5.50
95 C 446	1⅛ inches	18 feet	5¾ pounds	5.98

Single Driving Lines

⅞-inch fronts with steel spring billets to buckle in bit; 1-inch russet or black hand parts. Length, about 13 feet. Shipping weight, per pair, 2 pounds.

95 C 465—All black. Per pair........................**$2.50**

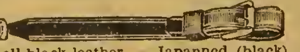
95 C 466—Russet hand parts. Per pair.............. **2.75**

Single Flat Driving Lines, 1-inch fronts with steel spring billets, to buckle in bit; 1⅛-inch russet or black hand parts. Length, about 13 feet. Shipping weight, per pair, 3 pounds.

95 C 467—All black. Per pair........................**$2.90**

95 C 468—Russet hand parts. Per pair.............. **3.20**

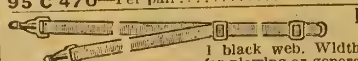
Heavy Single Express Lines



Width, 1 inch; 13 feet long; all black leather. Japanned (black) buckles on front ends. Shipping weight, per pair, 3 pounds.

95 C 470—Per pair...................................**$2.65**

Black Web Team Lines



Made from heavy No. 1 black web. Width, 1⅛-inch and intended for plowing or general farm work. Length, 18 feet. Shipping weight, per set, 2 pounds.

95 C 473—Per set....................................**$1.98**

95 C 474—Same as above except 1¼-inch by 20 feet. Shipping weight, per set, 2½ pounds. Per set......................**$2.25**

Pads For Slip Tug Harness

All harness leather with hair stuffed bottom. Wide swell shape and metal dees in end with terrets and hooks. 1¼ inch heavy slip tugs adjustable skirts with extra liner in trace loop. XC (white metal) loop. Shipping weight, per pair, 7 pounds.

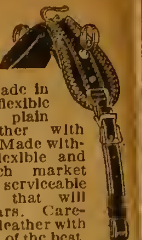
95 C 557—Per pair **$7.75**

95 C 558—Same as 95 C 557, only Japanned (black) trimmed. Per pair **$7.75**

95 C 565—1¼-inch slip tug skirts only, as used on the above pads. Wt., set of four, 6 lbs. Set of four **$4.15**

95 C 566—Same as 95 C 565, only 1½ inch wide. Wt., set of four, 6 pounds. Per set of four.......**$4.40**

Flexible Back Pad



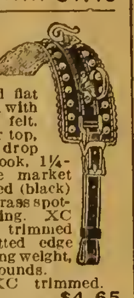
Our best grade in a low priced flexible back pad. All plain harness leather with stuffed pads. Made without plates, flexible and with 1½-inch market straps. A very serviceable pad and one that will last many years. Carefully selected leather with workmanship of the best. XC (white metal) plated hooks and terrets. Shipping weight, per pair, 5 pounds.

95 C 560—Per pair **$5.25**

95 C 561—Same as above, Japanned (black) trimmed. Per pair **$5.25**

If without market straps, deduct $1.70 per pair.

Flat Team Pad

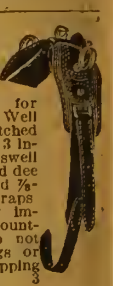


Fancy spotted flat Team Pad, lined with good quality felt. Harness leather top, felt lined with drop terrets and hook, 1¼-inch adjustable market straps. Japanned (black) trimmed. Has brass spotted edge housing. XC (white metal) trimmed has nickel spotted edge housing. Shipping weight, per pair, 4½ pounds.

95 C 555—XC trimmed. Per pair............**$4.65**

95 C 556—Same as above except Japanned (black) trimmed. Per pair **$4.65**

Buggy Gig Saddles



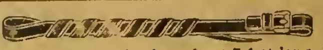
Gig Saddles for buggy harness. Well made and linen stitched throughout; Size 3 inches with sewed swell pad, steel tree and dee bearer, 1-inch and ⅞-inch bellyband straps Nickel, brass or imitation rubber mountings. Prices do not include shaft tugs or bellyhands. Shipping weight, each, 3 pounds.

95 C 578—Nickel trimmed. Each......**$4.27**

95 C 579—Imitation rubber trimmed. Each......**$4.28**

95 C 580—Brass trimmed. Each...............**$4.29**

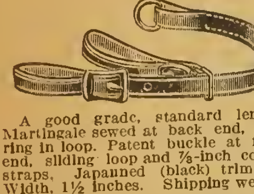
Buckle and Billet Hitching Strap



Black harness leather, about 7 feet long. Buckle and billets sewed.

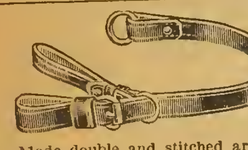
Article No.	Width	Wt. Oz.	Each	Article No.	Width	Wt. Oz.	Each
95 C 653	¾ inch	8	48¢	95 C 655	1 inch	10	64¢
95 C 654	⅞ inch	9	55¢	95 C 656	1¼ inch	12	78¢

Martingales



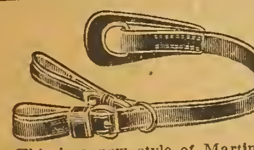
A good grade, standard length. Martingale sewed at back end, with ring in loop. Patent buckle at front end, sliding loop and ⅞-inch collar-straps. Japanned (black) trimmed. Width, 1½ inches. Shipping weight, each, 1 pound.

95 C 500—Each.........**$1.00**



Made double and stitched around front loop, giving double wear around neckyoke. Roller buckles and leather loop sewed; ⅞-inch sewed collar strap.

Article Number	Width	Shipping Wt. Each	Each
95 C 494	1½ inches	17 ounces	$1.25
95 C 495	1¾ inches	19 ounces	1.40



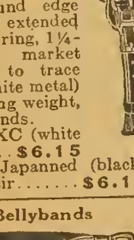
This is a new style of Martingale and a product of our own factory. It is made of the best selected harness leather and stitched with pure linen thread. Heavy 1½-inch wide double and stitched around front, wide safe under ring at back end; 1-inch collar straps. Shipping weight, each 1½ pounds.

95 C 497—Each.........**$1.55**

95 C 498—Same as 95 C 497, except 1¾ inch wide. Each........**$1.69**

95 C 499—Same as 95 C 497 except 2 inches wide. Each........**$1.85**

Team Back Pads

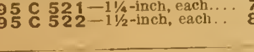


Adjustable, Moline Tree. Harness leather Pad. Solid harness leather top and bottom, linen stitched. Full sewed around edge and has regular extended skirt with safety ring, 1¼-inch adjustable market straps attached to trace buckles. XC (white metal) trimmed. Shipping weight, per pair, 7¾ pounds.

95 C 563 — XC (white metal). Per pair.. **$6.15**

95 C 564 — Japanned (black) trimmed. Per pair....... **$6.15**

Folded Bellybands



Folded leather with layer and 2 rows of stitching with 1¼-inch and 1½-inch buckles. Shipping weight, 13 ounces.

95 C 521—1¼-inch, each.... **78¢**

95 C 522—1½-inch, each.. **89¢**

Cow Bell Straps

Heavy black harness leather, 3 feet long.

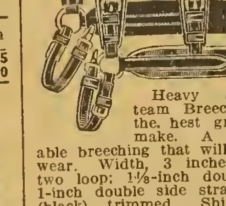
Art. No.	Width Inches	Weight Each	Each	Per Dozen
957C26	1¼	7 oz.	31¢	$3.65
957C27	1½	9 oz.	37¢	4.35
957C28	1¾	12 oz.	50¢	5.95

Sewed Hame Strap

Our best grade black leather Hame Strap, strictly first quality, buckles and leather loops sewed in. Lengths, 21 and 27 inches. Shipping weight, each, 3 to 7 ounces.

95 C 502— ⅞x21 inches......**25¢**
95 C 503—1 x21 inches......**28¢**
95 C 504—1⅛x21 inches......**32¢**
95 C 505— ⅞x27 inches......**30¢**
95 C 506—1 x27 inches......**34¢**
95 C 507—1⅛x27 inches......**38¢**

Single Strap Breeching



Heavy Single Strap team Breeching. One of the best grades that we make. A good serviceable breeching that will stand lots of wear. Width, 3 inches, with layer, two loop; 1⅛-inch double lead ups. 1-inch double side straps. Japanned (black) trimmed. Shipping weight, per set of two, 7 pounds.

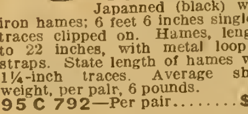
95 C 585—Per set of 2.....**$8.75**

Breast Straps

A well made heavy Breast Strap, reinforced lap where strap attaches to ring on hame, 4 feet 6 inches long, leather loops. Japanned (black) trimmed.

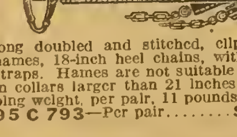
Article Number	Width Inches	Shipping Weight	Each
95 C 480	1½	14 ounces	$ .98
95 C 481	1¾	16 ounces	1.15
95 C 482	2	20 ounces	1.33

Hames and Traces



For buggy harness, Japanned (black) wrought iron hames; 6 feet 6 inches single strap traces clipped on. Hames, length, 17 to 22 inches, with metal loop hame straps. State length of hames wanted. 1¼-inch traces. Average shipping weight, per pair, 6 pounds.

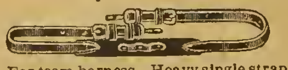
95 C 792—Per pair........**$4.50**



For single wagon harness, clip hames, painted red. XC plated ball tops; traces 1½ inches by 5 feet long doubled and stitched, clipped to hames, 18-inch heel chains, with hame straps. Hames are not suitable for use in collars larger than 21 inches. Shipping weight, per pair, 11 pounds.

95 C 793—Per pair........**$7.25**

Hip Breeching



For team harness. Heavy single strap, with loop on top and side strap with snaps to snap into martingale.

Article No.	Bodies	Side Straps	Ship. Wt. Lbs.	Set, 2 Horses
95 C 605	1¾ in.	⅞ inch	2¾	$2.95
95 C 606	1⅞ in.	1 inch	3	3.35
95 C 607	2 in.	1⅛ inches	3¾	3.65

Riveted Hame Strap

Black harness leather of good quality. Japanned (black) buckles and iron loops riveted in. Made up in lengths, 21 and 27 inches. Shipping weight, each, 3 to 7 ounces.

95 C 510— ⅞x21 inches......**18¢**
95 C 511—1 x21 inches......**21¢**
95 C 512— ⅞x27 inches......**22¢**
95 C 513—1 x27 inches......**25¢**

Made from heavy water buffalo hides chrome tanned, extra heavy. Has roller, buckle and metal loops, russet color. Shipping weight, each, 3 to 7 ounces.

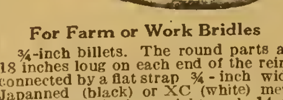
95 C 515— ⅞x21 inches......**21¢**
95 C 516—1 x21 inches......**24¢**
95 C 517— ⅞x24 inches......**25¢**
95 C 518—1 x24 inches......**34¢**
95 C 519—1¼x24 inches......**39¢**

Horse Breaker

Simple, practical, safe and effectual. A breeding hobble, or for breaking purposes, and is especially valuable when used to break vicious horses of the dangerous kicking habit. The breaker should be supported from the horse by means of a surcingle. Shipping weight, 4 pounds.

95 C 724...................**$3.15**

Round Side Check Reins



For Farm or Work Bridles

¾-inch billets. The round parts are 18 inches long on each end of the reins, connected by a flat strap ¾-inch wide. Japanned (black) or XC (white) metal trimming. Shipping weight, each, 14 oz.

95 C 719—Each.......... **$1.18**

Leather Chain Piping

To cover trace chains on plow harness. Length, 24 inches. No binding on ends. Shipping weight, per set of four, about 2 pounds.

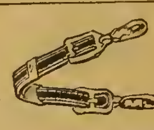
95 C 742—Per set of four (for two horses).....................**$1.89**

Extra heavy chain piping to cover trace chains on plow harness. Bound on both ends and made in three lengths.

Per Set of 4 for Two Horses

Article No	Length	Ship. Wt Set of 4	Set of 4
95 C 743	30 inches	3 pounds	$2.99
95 C 744	36 inches	3½ pounds	3.50
95 C 745	42 inches	4½ pounds	4.25
95 C 746	48 inches	5½ pounds	5.55

Giant Breast Strap



Width, 1½ inches; length, 2 feet doubled and stitched, combination buckle and heavy snap on each end and slide in the center. Durable. Made only in one length, width and style. Shipping weight, each, 14 ounces.

95 C 489—Each..............**89¢**

Breast Collar

To be used in place of hames and collar on farm harness, to give relief to a horse suffering from sore shoulders. Width, of breast piece, 4 in. Made from one piece of heavy leather, cut 8 inches wide and turned over 1¾-inch layers on each end with Champion trace buckles and heavy dees for a breast strap; ⅞-inch neck straps on each side, the top part being 4 inches wide with 1¾-inch layer. Drop terrets riveted on for lines to pass through. Japanned (black) buckles. To use with 1½ or 1¾-inch traces. Shipping weight, each, 8 pounds.

95 C 624—Each......... **$7.25**

Lazy Straps

95 C 643 95 C 642

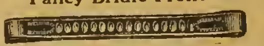
95 C 643—To buckle on the hip straps of team harness to hold up the traces. Made of heavy and wide single ply leather. 1-inch buckles. Length, 6 inches. Shipping weight, each, 5 ounces. Each.........................**25¢**

95 C 644—Set of 4 No. 643.....**90¢**

95 C 642—⅞-inch billet, 1¼-inch liners with twin loop. Japanned (black) trimming. Length, 6 inches. Shipping weight, each 5 ounces. Each...**$ .35**

95 C 641—Set of 4 No. 642.. **1.28**

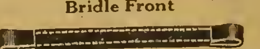
Fancy Bridle Front



Strong and very ornamental, cut 1⅛-inch, 17 inches long, leather loop on each end and 16 large oval shaped brass spots. Shipping weight, each, 3½ ounces.

95 C 705—Each..............**44¢**

Bridle Front



All harness leather, high oval raise. Width, ⅝ inch, 2 rows imitation stitched. Plain but substantial. Total length, 15 inches. Shipping weight, each, 3 ounces.

95 C 706—Each............. **14¢**

Team Rounds

Team rounds only, without center checks. Length, 18 inches with buckle and billet on one end and ring rounded into other end. Shipping weight, each, 4 ounces.

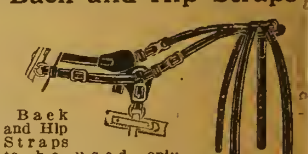
95 C 720—Each ....**35¢**

Team Throat Latch

Width, ¾ inch, length, 18 inches, black leather with black bar buckle at each end. Shipping weight, 4 ounces.

95 C 702—Each............ **16¢**

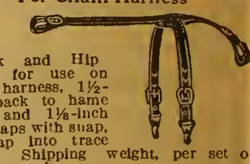
Back and Hip Straps



Back and Hip Straps to be used only with breechings that have 1-inch lead up tugs. Has 1-inch double hip straps, 1-inch back straps and 1-inch shoulder straps. Metal trace carrier on top of hip. Japanned (black) trimmed. Shipping weight, per set, 4 pounds.

95 C 622—Per set of 2.....**$6.45**

For Chain Harness

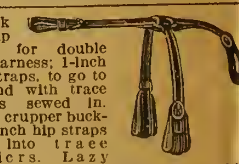


Back and Hip Straps for use on chain harness, 1½-inch back to hame strap and 1⅛-inch hip straps with snap, to snap into trace chain. Shipping weight, per set of two, 5 pounds.

95 C 619—Per set of 2.....**$4.95**

Back and Hip Straps only; 1-inch crotch back straps to run to rings in hames. 1-inch hip straps sewed in metal trace carrier on top. Japanned (black) trimmed. May be used with 95 C 588 breeching. Shipping weight, per set, of two, 4 pounds.

95 C 621—Per set of 2.....**$5.1**



Back and Hip Straps for double farm harness; 1-inch back straps, to go to pad and with trace carriers sewed in. Folded crupper buckled, 1-inch hip straps sewed into trace carriers. Lazy straps for traces buckled on the hi[p] straps. Shipping weight, per set [of] two, 3¾ to 4¼ pounds.

95 C 618—Per set of 2.....**$4.3**

95 C 620—Same as above excep[t] 1⅜-inch back and hip. Per set of 2................**$4.7**

Griffith Style Bellybands

For single buggy harness, 1½-inch single strap, with ¾-inch wra[p] strap, length, 23 inches. Shippi[ng] weight, 14 ounces.

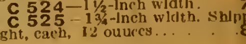
95 C 528—Each **83**

Check-Up Straps

Japanned (black) trimmed; ⅞-inc[h] Shipping weight, per pair, 8 ounces.

95 C 638—Per pair..........**70**

Plow Bellybands



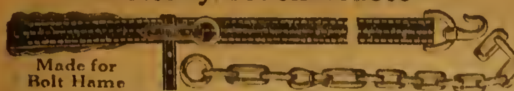
Single strap, leather loop on ea[ch] end to go over chain traces. To buck[le] on one side. Length, 39 inches. Shi[p]ping weight, 9 ounces.

95 C 524—1½-inch width. 7[5]

95 C 525—1¾-inch width. Shippi[ng] weight, each, 12 ounces.... .8[5]

See Page 626 for Wardway Wagon and Implement Paint

Heavy Truck Traces

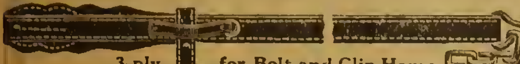


This is our best grade of Lumbor Style Traco. Made of selected, oxtra heavy black harness leather, 3 ply and 3 row stitched. The stitching throughout the trace is of pure linen thread and thus insures extra wear for many years. 5 feet long with Pinery hook and dee with 36-inch butt chains and 1½-inch hellyband billets. This trace is made for bolt hame. Comes in 3 sizes, 1¾ inches, 2 inches, and 2¼ inches wide. Shipping weight, per set of four, 22 to 30 pounds.

95 C 759—1¾ inches wide. Per set of 4 .... $18.95
95 C 760—2 inches wide. Per set of 4 .... 21.45
95 C 761—2¼ inches wide. Per set of 4 .... 22.75

Heavy Single Strap Concord Traces, cut from Number 1 trace leather, with double and stitched front points, single strap bodies, cockeyes sewed in. Length, 6 feet; 1½ inch by 2¼ inch bodies. Shipping weight, per set of four, about 10 pounds.

95 C 768—Per set of four $10.25
95 C 769—Same as above except 1¾ inch by 2½-inch bodies.
Per set of four $11.35



Made 3 ply and 6 feet long with an 18-inch heel chain sewed in. Scalloped safe in front. For bolt hames in 1½ inches, 1¾ inches and 2 inches wide. For clip hames 1½ inches and 1¾ inches wide. The 1½-inch have 2 rows of stitching, and 1¼-inch billets. The 1¾-inch and 2-inch have 3 rows of stitching and 1½-inch billets. Shipping weight, per set of four, 18 to 24 pounds.

95 C 750—1½-inch for bolt hame. Per set of 4 .... $16.50
95 C 751—1¾-inch for bolt hame. Per set of 4 .... 19.20
95 C 752—2 -inch for bolt hame. Per set of 4 .... 21.45
95 C 753—1½-inch for clip hame. Per set of 4 .... 14.25
95 C 754—1¾-inch for clip hame. Per set of 4 .... 16.60

Another of our high grade truck traces with jointed clips for bolt hames. It has a 6-link chain sewed in and is made 3-ply with scalloped safe in front. The 1½ inch have 2 rows of stitching and 1¼ inch billets. The 1¾ inch have 3 rows stitching and 1½-inch billets. Shipping weight, per set of four, 18 to 20 pounds.

95 C 756—1½-inch for bolt hame. Per set of 4 .... $15.50
95 C 757—1¾-inch for bolt hame. Per set of 4 .... 17.95

A fine heel chain trace which contains the same good qualities that you will find in our other styles; 3-ply and 6 feet long not including the 6-link chain which is clipped on; with jointed clips for bolt and clip hames, 1¼-inch bellyband billets, and scalloped safe in front. Shipping weight, per set of four, from 10 to 18 pounds.

95 C 763—1½-inch for bolt hame. Per set of 4 .... $13.95
95 C 764—1¾-inch for bolt hame. Per set of 4 .... 15.75
95 C 765—1½-inch for clip hame. Per set of 4 .... 12.45
95 C 766—1¾-inch for clip hame. Per set of 4 .... 14.25

Team and Express Traces

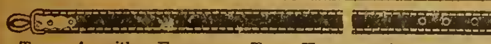
Our best grade of buckle trace, made heavy, double and stitched, cockeye sewed in; 2-row stitched.

Length, 6 feet

Art. No.	Width	Ship. wt., Set of 4	Per Set of 4
95 C 770	1¼ inches	6½ pounds	$ 8.25
95 C 771	1½ inches	8 pounds	10.55
95 C 772	1¾ inches	10 pounds	12.10

Length, 6 feet, 6 inches

95 C 773	1¼ inches	7½ pounds	$ 9.25
95 C 774	1½ inches	9½ pounds	11.40
95 C 775	1¾ inches	11½ pounds	12.95



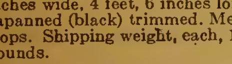
Traces for either Express or Team Harness, with clip cockeyes on the back ends. These are double and stitched and are exceptionally well made traces. In three widths. Average shipping weight, per set of four, 10 pounds.

95 C 780—1¼ inches by 6 feet. Per set of 4 .... 7.65
95 C 781—1½ inches by 6 feet. Per set of 4 .... 8.70
95 C 782—1¾ inches by 6 feet. Per set of 4 .... 9.95
95 C 783—1¼ inches by 6½ feet. Per set of 4 .... 8.45
95 C 784—1½ inches by 6½ feet. Per set of 4 .... 9.65
95 C 785—1¾ inches by 6½ feet. Per set of 4 .... 10.95

Team Traces for Moeller Metal Hame Tugs. Double and stitched with clip cockeye, and hook on front end. Length, 5 feet, 10 inches Shipping weight, per set of four, about 10 pounds.

95 C 789—1½ inch. Per set of 4 .... $ 9.00
95 C 790—1¾ inch. Per set of 4 .... 10.25

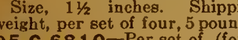
Giant Breast Strap



A good grade, team Breast Strap, reinforced lap where strap attaches to ring on hame, 1½ inches wide, 4 feet, 6 inches long. Japanned (black) trimmed. Metal loops. Shipping weight, each, 1¼ pounds.

95 C 487—Each .... 83¢

Moeller Iron Hame Tugs



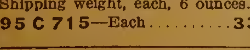
Moeller's Iron Hame Tugs, 2-loop, as used in long tug harness Japanned (black) finish.

Size, 1½ inches. Shipping weight, per set of four, 5 pounds.

95 C 6810—Per set of (four) $1.80

95 C 6811—Size, 1¾ inches. Shipping weight, per set of four, 5¼ pounds. Per set of four $2.00

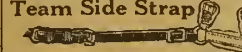
Team Bridle Crown



For team bridles. 1½-inch bodies, made to buckle into ⅞-inch cheeks. Total length, 24 inches. Shipping weight, each, 6 ounces.

95 C 715—Each .... 33¢

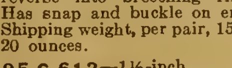
Open Bridle Cheeks



Width, ⅞-inch. Japanned finished buckle. Shipping weight, per pair, 12 oz.

95 C 701—Per pair ..... 60¢

Team Side Strap

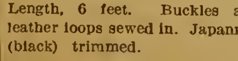


Single side straps for breeching on team harness. Made to reverse into breeching ring. Has snap and buckle on end. Shipping weight, per pair, 15 to 20 ounces.

95 C 612—1⅛-inch. Per pair $1.05

95 C 613—1¼ inch. Per pair 1.20

Team Side Strap



Double side straps for Breeching on double team harness. Length, 6 feet. Buckles and leather loops sewed in. Japanned (black) trimmed.

Article No.	Size	Ship. Wt. Per Pair	Per Pair
95 C 609	1 in.	18 oz.	$1.45
95 C 610	1⅛ in.	23 oz.	1.65
95 C 611	1¼ in.	30 oz.	1.85

Ring Crown Bridles

This is the best bridle we make. Folded Ring Crown Bridle, 1-inch short check with bit straps and spotted noseband; sensible blinds, folded crown with layer and 1¼-inch billets; combination double and stitched front and winker brace spotted with face drop, long round side reins. Shipping weight, 5 pounds.

95 C 400—XC (white) metal trimmed with long side reins $4.59

95 C 401 — Japanned (black) trimmed with long side reins $4.60

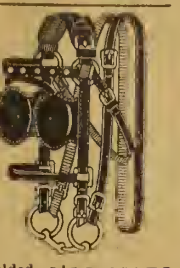
95 C 402—Same as 95C400 except with flat reins to check over hames $3.79

95 C 403—Same as 95C401 except with flat reins to check over hames $3.80

Folded ring crown bridles, long round reins; ⅞-inch short cheek with bit straps and nosebands; sensible blinds, combination double and stitched front and winker brace, folded crown with layer. Shipping weight, 5 pounds.

95 C 404 — Japanned (black) with nickel spots $3.59

95 C 405 — Japanned (black) with brass spots $3.60

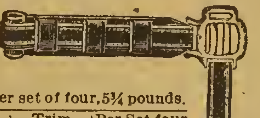


Folded ring crown bridles, flat rein; ⅞-inch short cheek with bit straps and nosebands; sensible blinds, combination double and stitched front and winker brace, folded crown with layer. Ship. wt., 5 lbs.

95 C 407 — Japanned (black) with nickel spots $2.95

95 C 406 — Japanned (black) with brass spots $2.96

Hame Tugs

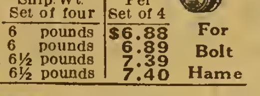


Three loop folded, for bolt hames with Champion traces buckles and belly-band straps without bellybands. Length, 20 inches. Shipping weight, per set of four, 5¾ pounds.

Article No.	Width	Trim	Per Set, four
95 C 539	1½ inches	XC	$5.95
95 C 540	1½ inches	Jap.	5.96
95 C 541	1¾ inches	XC	6.49
95 C 542	1¾ inches	Jap.	6.50

Same as above except for clip hames, length 18 inches.

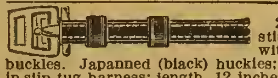
Article No.	Width	Trim	Per Set of 4
95 C 543	1½ inches	XC (White)	$5.25
95 C 544	1½ inches	Jap (Black)	5.26
95 C 545	1¾ inches	XC (White)	5.39
95 C 546	1¾ inches	Jap (Black)	5.40



Laced loop, folded Hame Tugs for use on bolt hames. Champion buckles with billets but without bellybands. Length, 20 inches.

Article No.	Width	Trim	Ship. Wt. Set of four	Per Set of 4
95 C 534	1½	XC	6 pounds	$6.88
95 C 535	1½	Jap.	6 pounds	6.89
95 C 536	1¾	XC	6½ pounds	7.39
95 C 537	1¾	Jap.	6½ pounds	7.40

For Bolt Hame



2-Loop folded and stitched Hame Tugs, with Champion trace buckles. Japanned (black) buckles; for use on clip hames in slip tug harness; length, 12 inches.

Article No.	Width	Ship. Wt. for 4	Per Set of 4
95 C 530	1¼ inches	3 pounds	$2.65
95 C 531	1½ inches	3½ pounds	2.89
95 C 532	1¾ inches	4 pounds	3.15

Team or Work Bridles

Our best grade ⅞-inch heavy long box loop check bridle, sensible blinds, round winker brace and round reins, spotted front and face piece. Shipping weight, 5 pounds.

95 C 408 — Japanned (black) ... $4.74

95 C 409—Japanned (black) with brass spots and rosettes .. $4.75

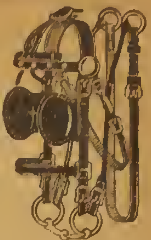
For flat reins in place of round, deduct, per bridle .... 50¢

Our best grade ⅞-inch heavy short check and noseband with bit strap, sensible blinds, round winker brace and round reins, spotted fronts and noseband. Shipping weight, 5 pounds.

95 C 411—Japanned (black) with nickel spots and rosettes .. $4.45

95 C 412—Japanned (black) with brass spots and rosettes ... $4.46

For flat reins in place of round, deduct, per bridle .... 50¢

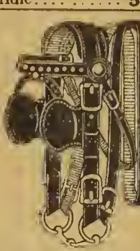


A good grade, ⅞-inch, short check, bit strap, noseband, sensible blinds, round winker brace, long round side rein; spotted front, rosettes. Shipping weight, 4½ pounds.

95 C 413 — Japanned (black) with nickel spots and rosettes. $3.49

95 C 414—Japanned (black) with brass spots and rosettes. . $3.50

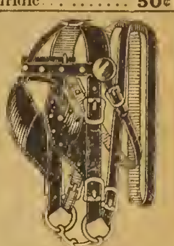
For flat side rein in place of regular, deduct per bridle. 50¢



Heavy 1¼ - inch cheeks. Extra wide crown, double and stitched with reinforced harness leather layer. 1-inch flat reins. Japanned (black) buckles. Brass spots. Shipping weight, 4 pounds.

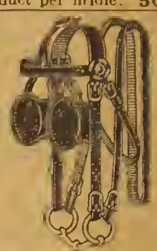
95 C 416 .. $2.75

For round reins in place of flat, add, per bridle .... 55¢



Pigeon Wing Blinds. 1¼-inch long cheeks, cupped pigeon wing blinds spotted round winker brace, spotted front, 1-inch flat side check. Shipping weight, 4½ pounds.

95 C 418 — Japanned (black) trimmed. $2.69



A good medium grade ⅞- and 1¼-inch long cheeks, sensible blinds, flat winker brace and flat side check. ⅞-inch cheek. Japanned (black) trimmed. Shipping weight, 4½ pounds.

95 C 420 ..$1.75

95 C 421 — 1¼-inch cheek $1.95

A good quality plain Open Team Bridle, ⅞-inch cheeks with fancy scalloped inserted safe, with fancy face piece, round side check, spotted fronts, large rosettes. Ship. wt., 3½ lbs.

95 C 426—Japanned (black) with nickel spots and rosettes .. $2.87

95 C 427—Japanned (black) with brass spots and rosettes ... $2.88

For short, flat reins in place of round, deduct, per bridle .... 50¢

A high-grade open Bridle, ⅞-inch short cheek, bit straps inserted safe in cheek, noseband round side check, ring bits. Ship. weight, 4 pounds.

95 C 423—Japanned (black) with nickel spots and rosettes. $3.15

95 C 424—Japanned (black) with brass spots and rosettes. $3.16

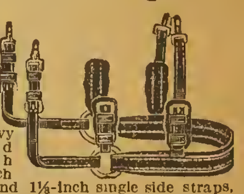
For short flat reins, deduct per bridle 50¢

Common Team Breeching

Common Team Breeching, intended for use with plow harness having all chain traces. Not suitable for use with leather traces. Made in three sizes. Breeching folded with layer. Snaps in breeching rings to fasten in chain traces; no side straps. Shipping weight, per set, 6¼, 7¼ and 8½ pounds.

Article No.	Hip Strap Double	Back Strap Single	Per Set of Two
95 C 591	⅞ inch	1 inch	$6.20
95 C 592	1 inch	1⅛ inch	6.35
95 C 593	1¼ inch	1¼ inch	6.75

Heavy Folded Team Breeching

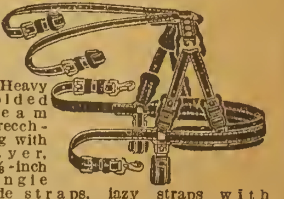


Heavy folded with 1⅛-inch layer and 1⅛-inch single side straps, 1-inch up-tugs, also furnished with or without the extra snap Hip Straps. Shipping weight, per set of two, 7½ lbs.

95 C 588—Japanned (black), without snap hip strap. Per set of 2 $7.05

95 C 589—1-inch hip strap with snap to attach to above breeching. Shipping weight per set of two, 23 oz. Per set of 4 .... $1.25

Heavy Folded Team Breeching



Heavy folded Team Breeching with layer, 1⅛-inch single side straps, lazy straps with wide wear leather, 1-inch tugs, back and hip straps 1-inch side trace carrier. Japanned (black) finish. Ship. weight., per set of two, 12 pounds

95 C 601—Per set of 2 .. $15.25

95 C 603—Same as above, except made heavier throughout and with 1⅛-inch back and hip straps, 1⅛-inch double side straps. Shipping weight, per set of two, 15 pounds. Per set of 2 .... $15.85

Leather, Rope and Web Halters

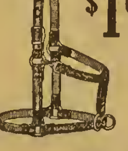
Our Best Halter

This is our best quality leather Halter, made of first selection of leather and with sewed laps, 5-ring style, without tie strap. Shipping weight, 1½ pounds.

95 C 674 — 1¼-inch straps. Each $1.65

95 C 675—1½-inch straps. Shipping weight, 2 pounds. Each $1.89

95 C 676—1½-inch straps, extra large, and laps, best quality. Ship. weight, 2¼ pounds. Each $2.05



Chrome Leather Halter

A new style of Halter that has proved very popular. Heavy 1¼-inch, made of chrome tanned high grade leather, with a gray finish. The strongest halter of its kind on the market. Has 4 tubular double capped rivets in each lap. Shipping weight, 30 ounces.

95 C 685—Each $1.60

See Index For Horse Shoes

Good Grade Black Leather Halter

This is our medium grade of Halter, made of selected leather. 1-inch riveted. Shipping weight, 19 ounces.

95 C 670—Each .... 98¢

95 C 671—1¼-inch riveted. Shipping weight, 1½ pounds. Each $1.25

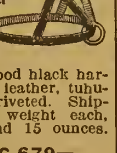
95 C 672—1¼-inch riveted. Same as 95 C 671, except extra large. Shipping weight, 2 pounds. Each $1.40

Colt or Pony Halter

This halter is made for pony or small horse. Black harness leather, tubular riveted and strong. 5 - ring style. 1-inch head without tie strap. Shipping weight, 1 pound.

95 C 680—Each .... 79¢

Many farmers and stockmen have been glad at times of emergency to have our stock remedies at hand—See Index.

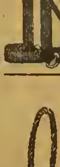


Good black harness leather, tubular riveted. Shipping weight each, 9 and 15 ounces.

95 C 679—1¼ in. Each . 75¢

95 C 682—12-cord fawn color Web with Jute Rope Tie. Each .... 60¢

Web Halters

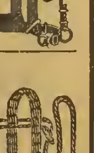


Made from heavy 12-cord web. 1⅝ inches wide. Adjustable web throat and chin - strap with rope tie cut full size. Shipping weight, 9 ounces.

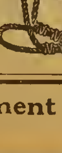
95 C 684—Each ..... 42¢

Adjustable 13-Cord Heavy Web Halter, with strong web throat latch, web chin strap, web front nickel rosettes and rope ties. Shipping weight, 13 ounces.

95 C 683—Each .... 62¢



Rope Halters

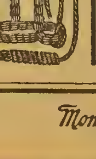


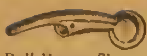
A good Rope Halter made of ½-inch strong sisal rope, with standard size head stall and about 6-foot tie. Shipping weight, 9 ounces.

95 C 688—Each ..... 37¢

Hand Woven Sisal Rope Halter, 1½-inch head and nose piece, strong sisal rope tie. Shipping weight, 10 ounces.

95 C 687—Each .... 38¢





Hame Tops

"Dandy" Brass or Nickel Plated Ball Hame Tops, opening 1⅛ inches; length, about 6½ inches. Diameter of ball, 1⅞ inches. Shipping weight, each, 8 ounces.
95 C 6805—Brass. Each....... 63¢
95 C 6806—Nickel Plated. Each 68¢

Chicago Hame Balls

Solid brass or nickel plated "Chicago" Hame Balls 2¼ inches in diameter, may be used on hames like 95 C 2016 and 95 C 2065 and similar hames. Shipping weight, each, 11 ounces.
95 C 6807—Solid Brass. Each 54¢
95 C 6809—Nickel Plated. Each. 59¢

Loops for Adjustable Hames

Malleable iron. May be used on any adjustable hame. Will fit perfectly. Easy to adjust. Shipping weight, per pair, 10 ounces.
95 C 6890 Per pair. ...... .15¢

Polished Hame Starts

Polished Hame Starts for bolt hames, (not threaded) to be used at top. Shipping weight, per set of four, 6 ounces.
95 C 6898—Per set of 4..... .35¢
95 C 6899—Polished Hame Starts, for bolt hames (threaded) to be used at bottom. Shipping weight, per set of four, 6 ounces. Per set of 4...... 36¢

Hame Bolts

Polished threaded Hame Bolts, for bolt hames. About 3¼ inches long. Shipping weight, per set of four 12 ounces.
95 C 6897—Per set of 4....... 29¢

Flanged Rollers

Polished Flanged Rollers for bolt hames, 2½ inches over all. Shipping weight, per set, of four, 12 ounces.
95 C 6896—Per set of 4...... 28¢

Hame Ratchets

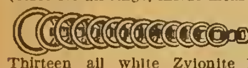
Polished Lone Star Hame Ratchets for adjustable draft hames. Shipping weight, per set of four, 12 ounces.
95 C 6894—Per set of 4....... 60¢

Hame Staples

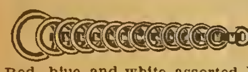
Hame Staples, with burrs. Made of best quality malleable iron, extra heavy. Shipping weight, per dozen, 2 pounds.
95 C 6821—Per dozen......... 33¢

Harness Spreaders

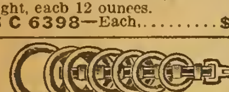
(Sizes for all rings, inside measure).



Thirteen all white Zylonite Rings, graduated from 1⅞ inch at the end to 1¼ inch next to snap; on ⅝-inch black strap; thirteen white loops with black snap. Length about 20 inches over all. Shipping weight, each, 14 ounces.
95 C 6412—Each..........$1.85

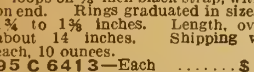


Red, blue and white assorted Duranoid Ring Spreader. The thirteen rings have iron centers covered with Duranoid. Rings graduate in size from 1⅞ inches at end to 1¼ inches next to strap. Length over all about 16 inches. Shipping weight, each 12 ounces.
95 C 6398—Each..........$1.20



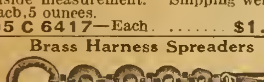
Celluloid Harness Spreaders

All white Celluloid 7-ring Spreader, 7 loops on ⅝-inch black strap, with snap on end. Rings graduated in sizes from 1¾ to 1⅜ inches. Length, over all, about 14 inches. Shipping weight, each, 10 ounces.
95 C 6413—Each $1.25
95 C 6415—Spreader, same as above, except with fifteen, 1⅛-inch celluloid rings and bottom ring 1⅞ inches. Shipping weight, each, 19 ounces.
Each.................... $2.10



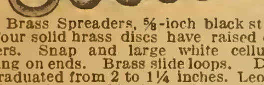
Twelve red, white and blue Celluloid Rings. Eleven small rings ⅞-inch and one large ring 2-inch; ⅝-inch strap, 12 celluloid loops. Total length of spreader, over all, 15 inches. Size of rings means inside measurement. Shipping weight, each, 5 ounces.
95 C 6417—Each $1.45

Brass Harness Spreaders



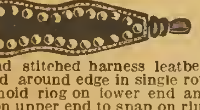
Brass Spreaders, ⅝-inch black strap. Four solid brass discs have raised centers. Snap and large white celluloid ring on ends. Brass slide loops. Discs graduated from 2 to 1¼ inches. Length, 12 inches. Shipping weight, each 5 ounces.
95 C 6388—Each.............93¢

Fancy Hip Drop

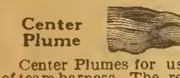


Double and stitched harness leather. Brass spotted around edge in single row White Duranoid ring on lower end and black snap on upper end to snap on ring of hip. Length of leather part, 9 inches. Shipping weight, each, 6 ounces.
95 C 6444—Each ....65¢

Center Plume



Center Plumes for use on cross reins of team harness. The reins pass through the large wood ring to which is attached a red hair tassel. A very nice ornament for a team. Length, about 12 inches, Shipping weight, each 2 ounces.
95 C 6416—Each ....39¢



Horse Hair Tassels

Bridle Horse Hair Tassels for team harness. Are supplied in red only. Length, 12 inches. We do not break pairs. Shipping weight, per pair, 3 oz.
95 C 6427—Per pair .... 53¢

Ward's Guaranteed Wood and Steel Hames

See Descriptions Below

Number 1—Our Monarch All Steel Hame 2-inch brass Chicago ball, balance of hame all black; bolt style. Combination hame strap loop. Shipping weight, per pair, 6 pounds.
95 C 2065—Per pair.....$3.10
95 C 2098—Same as above except with 2-inch nickel Chicago ball, Per pair..................$3.25

Number 2—Red wood Hames, steel bound, 2¼-inch brass Chicago ball, balance of trimmings, black finish, made clip or bolt style. Shipping weight, per pair, 4½ pounds.
95 C 2045—Clip style.
Per pair $2.90
95 C 2046—Bolt style.
Per pair.................. 2.95
95 C 2055—Wood iron clad, Red bolt Hames, same style as 95 C 2046, except with 1¾-inch brass ball top, made in bolt style. Fit collars 19 to 22 inches. Shipping weight, per pair, 6 pounds. Per pair.........$2.60

Number 3—Steel Hames, Japanned (black), with combination hame strap loop and 1¾-inch brass ball. Fit collars 18 to 22 inches. Made in clip style. Shipping weight, per pair, 6 pounds.
95 C 2047—Per pair.....$2.55

Number 4—Steel Hames, Japanned (black) with combination hame strap loop and 1¾-inch brass ball. Fit collars 18 to 22 inches. Made in bolt style. Ship. wt. per pair, 6 lbs.
95 C 2048—Per pair.....$2.80

Number 5—Iron over top all black wood hames. Combination hame strap loop and breast ring. Made in clip style. Fit collars 18 to 22 inches. Shipping weight, per pair, 4½ pounds.
95 C 2015—Per pair... .$1.40

Number 6—Iron over top all black wood Hames. Combination hame strap loop and breast ring. Made in bolt style. Fit collars 18 to 22 inches. Shipping weight, per pair, 4½ pounds.
95 C 2016—Per pair.....$1.50

Number 7—Full Iron Hames with hame straps and 1⅛-inch box loop hame tugs. Sizes, 17 to 21 inches. Japanned (black). Shipping weight, per pair, 4 pounds.
95 C 2089—Per pair.....$3.00
95 C 2090—Same as 95 C 2089 except with 1¼-inch hame tugs.
Per pair.....................$3.25

Number 8—Black wood low top clip style Hames. XC (tinned) trimmed. Fit collars 17 to 21 inches. Shipping weight, per pair, 3¾ pounds.
95 C 2076—Per pair.....$1.10

Number 9—Oiled Concord low top, heavy steel bound bolt style Hames. Fit collars 20 to 22 inches. Shipping weight, per pair, 6 pounds.
95 C 2083—Per pair.....$1.85
95 C 2084—All steel Japanned (black) finish low top. Fit collars 18 to 20 inches. Shipping weight, per pair, 6 pounds.
Bolt style. Per pair........$1.95
95 C 2085—Clip style. Pair 1.75

Number 10—Varnished wood, metal Hame strap loops. Adjustable draft, with breast strap ring. Fit collars 18 to 22 inches. Made clip style. Ship. wt, per pair, 4½ pounds.
95 C 2008—Per pair.....$1.25

Number 11—Oiled Concord heavy wood Hame, adjustable draft. Mortised loops for hame straps, heavy steel back. Made in clip style. Fit collars, 18 to 21 inches. Shipping weight, per pair, 6¾ pounds.
95 C 2059—Per pair..... $1.86

Number 12—Oiled Concord heavy wood bolt Hames. Mortised loop, heavy steel back. Fit collars 18 to 21 inches. Ship. wt., per pair, 5 lbs.
95 C 2050—Per pair.....$1.80
95 C 2053—Same as 95 C 2050, except to fit collars 21 to 23 inches. Per pair.................$2.00

Number 13—Iron clad, red, 1¾ inch XC (white metal) ball top, combination loop. Made in clip or bolt style. Fits collars 19 to 22 inches. Shipping weight, per pair, 6 pounds.
95 C 2043—Clip style.
Per pair...................$2.10
95 C 2044—Bolt style
Per pair.................. 2.25

Tyraline Harness Rings

Tyraline Rings—red, white or blue. Article number indicates color. Sizes given are inside dimensions, of rings as indicated in illustration above.

Size In.	Red	White	Blue	Weight per Doz.	Price Each	Price Per Dozen
1¼	95 C 6925	95 C 6932	95 C 6939	3 ounces	11¢	$1.10
1⅜	95 C 6926	95 C 6933	95 C 6940	4 ounces	12¢	1.25
1½	95 C 6927	95 C 6934	95 C 6941	5 ounces	13¢	1.40
1⅝	95 C 6928	95 C 6935	95 C 6942	6 ounces	15¢	1.60
1¾	95 C 6929	95 C 6936	95 C 6943	8 ounces	17¢	1.80
1⅞	95 C 6930	95 C 6937	95 C 6944	11 ounces	20¢	2.15
2⅛	95 C 6931	95 C 6938	95 C 6945	12 ounces	23¢	2.50

Japanned Harness Rings

Malleable Iron Harness, Halter and Breeching Rings. Japanned finish.

Article Number	Diam. Inches	Wt., per Dozen	Per ½ Doz.	Per Doz.
95C6975	⅝	1¾ oz.		9¢
95C6976	¾	2¼ oz.		10¢
95C6977	⅞	2½ oz.		12¢
95C6978	1	5¾ oz.	7¢	14¢
95C6980	1¼	6 oz.	9¢	16¢
95C6981	1½	12½ oz.	14¢	25¢
95C6982	1¾	14 oz.	15¢	30¢
95C6983	2	1²⁄₁₆ lbs	17¢	31¢
95C6984	2¼	1¹²⁄₁₆ lbs	24¢	42¢
95C6985	2½	2³⁄₁₆ lbs	31¢	60¢
95C6986	3	2¹¹⁄₁₆ lbs	36¢	70¢

Bone Trimming Rings

Diameter, about 1 inch, inside measurement. **State color wanted.** Shipping weight, per dozen, 2 ounces.
95 C 6962—Red. Per dozen 50¢
95 C 6963—White. Per dozen 50¢
95 C 6964—Blue. Per dozen 50¢

Solid Brass Rings

Harness, Halter or Breeching Rings.

Article Number	Diam. In.	Wt. Oz.	Per ½ Doz.	Per Dozen
95 C 6991	¾	3½	13¢	25¢
95 C 6992	⅞	3¾	15¢	28¢
95 C 6993	1	5½	18¢	35¢
95 C 6994	1¼	12	28¢	52¢
95 C 6995	1½	13½	35¢	67¢
95 C 6996	1¾	22	43¢	81¢
95 C 6997	2	29	50¢	95¢

Duranoid Rings

Composition rings with iron centers. 1¾-inch inside measurement. Shipping weight, per dozen, 12 ounces.
95 C 6955—Red.
Per ½ dozen, 38¢ Per dozen, 70¢
95 C 6956—White.
Per ½ dozen, 38¢ Per dozen, 70¢
95 C 6957—Blue.
Per ½ dozen, 38¢ Per dozen, 70¢

Solid Brass Slide Loops

Polished inside. Used for connecting any size rings when making spreader straps.
95 C 7029—Size, ⅝-inch. Shipping weight, per dozen, 1¼ ounces.
Per dozen.....................21¢
95 C 7030—Size, ¾-inch. Weight, per dozen, 1½ ounces. Per dozen. 25¢

Celluloid Loops

These celluloid loops are of the best quality to be used in making spreaders or other trimming about the harness.

Article Number	Diam.	Color	Wt. per Doz.	Per Doz.
95C7002	⅝ in.	Red	½ oz.	20¢
95C7003	¾ in.	Red	¾ oz.	25¢
95C7004	⅞ in.	Red	1 oz.	30¢
95C7005	⅝ in.	White	½ oz.	20¢
95C7006	¾ in.	White	¾ oz.	25¢
95C7007	⅞ in.	White	1 oz.	30¢
95C7008	⅝ in.	Blue	½ oz.	20¢
95C7009	¾ in.	Blue	¾ oz.	25¢
95C7010	⅞ in.	Blue	1 oz.	30¢

Harness Spots

Used for ornamenting all kinds of Team, Buggy and Express Harness. **Solid metal.** Nickel and brass finish. Shipping weight, per dozen, 3 ounces.

Article Number	Finish	Size Inches	Per Doz.
95 C 6342	Nickel Plated	⅜	8¢
95 C 6343	Nickel Plated	½	9¢
95 C 6344	Nickel Plated	⅝	10¢
95 C 6345	Nickel Plated	¾	13¢
95 C 6346	Nickel Plated	⅞	15¢
95 C 6347	Nickel Plated	1	18¢
95 C 6348	Solid Brass	⅜	8¢
95 C 6349	Solid Brass	½	9¢
95 C 6350	Solid Brass	⅝	10¢
95 C 6351	Solid Brass	¾	13¢
95 C 6352	Solid Brass	⅞	15¢
95 C 6353	Solid Brass	1	18¢

Drover or Cattle Whips

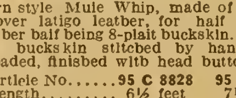
Fine 12-plait latigo leather, buckskin point, shot loaded center, with an unbreakable patent steel revolving leather covered handle, white buck point and snap, fine hand made long button and heavy large bead button.

Article number	95 C 8814	95 C 8815
Length	10 feet	12 feet
Shipping weight	30 ounces	32 ounces
Each	$3.25	$3.75

Fine 12-plait specially tanned drumhead rawhide, shot loaded center, patent solid steel revolving leather covered handle, white buck point and snap, fine hand made long button and heavy large bead button.

Article No.	95 C 8816	95 C 8817
Length	10 feet	12 feet
Shipping weight	29 ounces	35 ounces
Each	$4.10	$4.50

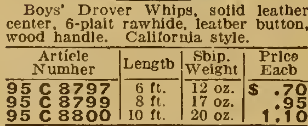
Shot Loaded Mule Whip



Genuine Mule Skinner. Real western style Mule Whip, made of double cover latigo leather, for half length, other half being 8-plait buckskin. Body is buckskin stitched by hand, shot loaded, finished with head button.

Article No.	95 C 8828	95 C 8829
Length	6½ feet	7½ feet
Shipping Weight	21 ounces	29 ounces
Each	$2.30	$2.90

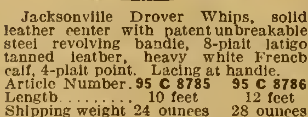
Boys' Drover Whips



Boys' Drover Whips, solid leather center, 6-plait rawhide, leather button, wood handle. California style.

Article Number	Length	Ship. Weight	Price Each
95 C 8797	6 ft.	12 oz.	$ .70
95 C 8799	8 ft.	17 oz.	.95
95 C 8800	10 ft.	20 oz.	1.10

Jacksonville Drover Whip



Jacksonville Drover Whips, solid leather center with patent unbreakable steel revolving handle, 8-plait latigo tanned leather, heavy white French calf, 4-plait point. Lacing at handle.

Article Number	95 C 8785	95 C 8786
Length	10 feet	12 feet
Shipping weight	24 ounces	28 ounces
Each	$2.00	$2.25

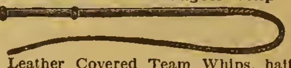
Same style as above, except with shot loaded center.

Article Number	95 C 8787	95 C 8788
Length	10 feet	12 feet
Shipping weight	30 ounces	32 ounces
Each	$2.30	$2.40

Rawhide Whip Lashes

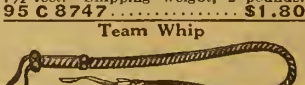
Made of fine oil finished rawhide, soft and pliable but very tough; 4-plait. Ship. weight, each, from 3 to 6 ounces.
95 C 8771—Length, 4 feet. Each..18¢
95 C 8772—Length, 5 feet. Each..22¢
95 C 8773—Length, 6 feet. Each..26¢

Leather Covered Wagon Whip



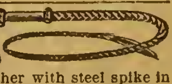
Leather Covered Team Whips, half rawhide center covered with russet leather; white horsehide tops. Length, 7 feet. Shipping weight, 1½ pounds.
95 C 8745 ....$1.10
All Leather Express Whips, solid stocked rawhide, body covered with oiled russet leather, buckskin stitched; length 8 feet. Shipping weight, 2 pounds.
95 C 8746................$1.70
Extra quality Wagon Whips. Heavy rawhide center with stocked Java body, which is again covered on the outside with 6-plait drum rawhide. Length, 7½ feet. Shipping weight, 2 pounds.
95 C 8747 ....$1.80

Team Whip



Made of heavy oiled leather cover over solid leather center, buck stitched. Braided buck-point. Shipping weight, 2½ pounds.
95 C 8818—Length, over all, 6½ feet. Each......................$1.45
95 C 8819—Length, over all, 7 feet. Each......................$1.60

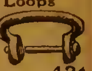
All-Leather Team Whips



Body solid leather with steel spike in center of handle, leather stitched handle, plaited with patent drum, rawhide entire length, buck snap, leather loop.

Art. No.	Length	Weight	Each
95 C 8752	5 ft.	16 oz.	$ .88
95 C 8753	6 ft.	17 oz.	1.12
95 C 8754	7 ft.	18 oz.	1.30

Screw Hame Bottom Loops



Polished finish. Loop will admit 1-inch strap. Shipping weight, per dozen, 11 ounces.
95 C 6846—Per dozen........42¢

Hame Repair Clips

Clip without loop. Made of sheet steel to fit the lower point of our wood hames. Ship. wt., per dozen, 11 ounces.
95 C 6831—Per dozen........32¢
95 C 6832—Clip with loop. Shipping weight, per dozen, 1¼ pounds.
Per dozen.....................48¢

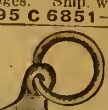
Hame Clips

Price does not include rivets. Shipping weight, per dozen, 2½ pounds.
95 C 6816—Per dozen........40¢

Iron Hame Rivets

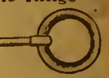
With 1-inch oval heads, in 1-pound packages only. We do not break packages. Ship. wt., per package, 1 pound.
95 C 6851—Per package......41¢

Hold Back Plates



Hayden's Hold Back Plates with rings for use on wooden hames, polished finish. Made on rights and lefts and sold only in pairs. Shipping weight, per pair, 7 ounces.
95 C 6841—Per pair.........22¢

Concord Hame Line Rings



Two-inch polished Concord Hame Line Rings, with studs and burrs for hames like 95 C 2050. Shipping weight per set of four, 7 ounces.
95 C 6827—Per set of 4......24¢

Hame Line Rings

Common Hame Line Rings. With stubs and burrs to be used on hames like 95 C 2016. Shipping weight, per set of four, 6 ounces.
95 C 6826—Per set of 4 ......18¢

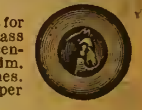
Brass Letters

Solid Brass Block Letters for attaching to harness, housings or other leather goods. Size, 1-inch. **Be sure to state letter wanted.** Shipping weight, each, 1 ounce.
95 C 6337—Each.........$ .12
Per dozen................... 1.32

Celluloid Center Rings

These White Celluloid Center Rings with white celluloid heart and red center are unique as harness decorations. The heart is 4½ by 4 inches. The diameter of ring is 3 inches. Shipping weight, each, 2 ounces.
95 C 6435—Each..60¢

Glass Rosettes

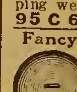


A popular ornament for the bridle. Fancy Glass Rosettes with glass centers and metal rim. Diameter, 1½ inches. Shipping weight, per pair, 2 ounces.
95 C 6368—Per pair.........25¢

Brass Rosettes

Extra heavy, good quality 2¼-inch Brass Rosettes, bridle rosettes, oval face with double dome in center makes the bridle more attractive. Shipping weight, per pair, 2 ounces.
95 C 6378—Per pair.........20¢

Fancy Conchas or Tie Buttons



For use on stock saddles Good weight metal, fine nickel plate finish; 1⅝-inch. Shipping weight, per dozen, 6 ounces.
95 C 3454—Each... 6¢
Per dozen...............63¢

Blinds and Cheeks

For team bridle, ⅞-inch short cheek with bit strap and nose band. Round winker brace and sewed in Japanned buckles. Shipping weight, per pair, 2 pounds.
95 C 694—Per pair.
...............$1.65

Crupper Fork and Crupper

1½ inches wide with snap and with folded crupper, black snap and buckles. Shipping weight, per pair, 1 pound.
95 C 636—Per pair........$1.20

Team Crupper

Folded cruppers for team harness, such as are generally used on all ordinary grades of farm harness. Folded bodies with ¾-inch Japanned (black) buckles on end to attach to forks in back of straps. Shipping weight, 4 ounces.
95 C 640—Each ....32¢

Spreader Straps

Black leather. Width, ¾ inch, length 24 inches with buckle and metal loop. Shipping weight, per pair, 3 ounces.
95 C 632—Per pair............25¢
95 C 633—Same as above except extra long, ¾ inch by 36 inches. Shipping weight, per pair, 5 ounces.
Per pair.......................35¢
95 C 634—Same as above except roller. Per pair ....50¢

Sheep Bell Collars

Made of black harness leather with buckles. Straps 24 inches long.

Art. No.	Width Inches	Weight Each	Price Each	Per Dozen
95C732	¾	2 oz.	12¢	$1.40
95C733	⅞	3 oz.	15¢	1.75
95C734	1	4 oz.	18¢	2.10

Market Straps

Used on team pads. Size, 1¼ inches. Shipping weight, per set of four. 1 pound.
95 C 645—Per set of 4....$1.60
95 C 646—Same as above, except 1½ inches. Per set of 4.... $1.85

Belly-band Billet

With Conway loop, 1¼ inches wide. Shipping weight, 4 ounces.
95 C 748—Each............ 28¢
95 C 749—Same as above, except 1½ inches wide. Each......... 34¢

Send for our Free Farm Equipment Catalogue, see Page 636

Harness Hardware of First Quality

Flat Tongue Snap

Imitation rubber (black) finish.

Article Number	Size In.	Weight per Doz.	Per ½ Doz.	Per Dozen
95C7077	⅞	1 lb. 3 oz.	21¢	39¢
95C7078	1	1 lb. 5 oz.	22¢	40¢
95C7084	1⅛	1 lb. 6 oz.	30¢	58¢
95C7079	1¼	1 lb. 14 oz.	37¢	70¢
95C7080	1½	2 lb.	40¢	77¢
95C7081	1¾	2 lb. 2 oz.	43¢	84¢
95C7082	2	2 lb. 5 oz.	50¢	96¢

Flat Tongue Snap

Japanned (black) finish.

Article Number	Size In.	Weight per Doz.	Per ½ Doz.	Per Doz.
95C7035	⅝	12 oz.	14¢	27¢
95C7036	1	13 oz.	15¢	28¢
95C7037	1¼	1 lb. 10 oz.	25¢	48¢
95C7038	1½	1 lb. 12 oz.	33¢	64¢

Round Eye Swivel Rope Snap

XC (white) metal finish.

Article Number	Size In.	Weight per Doz.	Per ½ Doz.	Per Doz.
95 C 7109	⅞	14 oz.	37¢	72¢
95 C 7110	¾	16 oz.	43¢	85¢

Bristol's Patent Rope Snap

XC (white) metal.

Article Number	Size In.	Weight per Doz.	Per ½ Doz.	Per Doz.
95 C 7071	⅝	1 lb. 7 oz.	35¢	67¢
95 C 7072	¾	1 lb. 9 oz.	37¢	72¢

Round Eye Bolt Snap

Rope, ¾ inch, round loops XC (white) metal Shipping weight, per dozen, 1 pound.
95 C 7065—Per ½ dozen......27¢
Per dozen......53¢

Open Eye Bolt Snap

For repairing breast chains. Size of eye, ½ inch. Length over all, 4 inches. Japanned (black) finish. Shipping weight each, 3 ounces.
95 C 7066 — Each......11¢

Neckyoke and Breast Strap Slide

Japanned (black) finish.

Article Number	Size In.	Wt. Each	Each	Per Dozen
95 C 7126	1½	11 oz.	22¢	$2.45
95 C 7127	1¾	12 oz.	24¢	2.65
95 C 7128	2	13 oz.	27¢	3.05

Double Chain Snap

Extra heavy, Japanned (black) finish to use on the end of breast chains. Weight, each, 6 ounces.
95 C 7129—Each......13¢

Bag Snap

Nickel plated. Will take strap ½ inch. Shipping weight, per dozen, 3 ounces.
95 C 7045—Per ½ dozen......18¢
Per dozen......33¢

Twin Loops

These loops are adjustable to any thickness of strap. Japanned (black) finish.

Article Number	Size In.	Wt. per Dozen Oz.	Per ½ Doz.	Per Doz.
95C7303	¾	5 oz.	10¢	18¢
95C7304	⅞	6 oz.	11¢	20¢
95C7305	1	7 oz.	13¢	22¢
95C7306	1¼	10 oz.	17¢	31¢

Conways Loop

Malleable Iron Japanned (black) Finish.

Article Number	Size In.	Weight per Dozen	½ Doz.	Per Doz.
95 C 7295	¾	7 oz.	8¢	14¢
95 C 7296	⅞	8 oz.	9¢	16¢
95 C 7297	1	9¼ oz.	9¢	17¢
95 C 7298	1¼	17 oz.	18¢	33¢

Halter Squares

Malleable iron. Japanned (black) finish.

Article Number	Size Inches	Wt., per Dozen	Per ½ Doz.	Per Doz.
95C7016	1¼x1½	12 oz.	15¢	28¢
95C7017	1½x1¾	18 oz.	20¢	35¢

Halter Loops and Rings

Malleable iron. Japanned (black) finish. Sizes given are the sizes of the openings in the loops.

Article Number	Size In.	Wt., per Dozen Lbs. Oz.	Each	Per Dozen
95C7023	1¼	1 12	4¢	40¢
95C7024	1½	1 14	5¢	45¢

Web Trunk Strap

1½ inches wide, 8 feet long. Heavy brown web with patent buckle, strong, light and durable. Weight 14 ounces.
95 C 5654......45¢

Round Tongue Snap

Imitation rubber (black) finish.

Article Number	Size In.	Weight per Doz.	Per ½ Doz.	Per Dozen
95C7094	⅞	13 oz	24¢	$.46
95C7095	1	14 oz	25¢	.48
95C7096	1¼	1 lb. 3 oz	39¢	.77
95C7097	1½	1 lb. 12 oz	43¢	.85
95C7098	1¾	2 lbs. 4 oz	48¢	.96
95C7099	2	2 lbs 12 oz	56¢	1.10

Imperial Harness Snap

Imitation rubber (black) finish.

Article Number	Size In.	Weight per Doz.	Per ½ Doz.	Per Dozen
95C7115	¾	12 oz	35¢	$.68
95C7116	⅞	1 lb. 4 oz	36¢	.69
95C7117	1	1 lb. 9 oz	37¢	.70
95C7118	1¼	1 lb. 11 oz	43¢	.85
95C7119	1½	3 lbs. 7 oz	53¢	1.05
95C7120	1¾	3 lbs. 9 oz	63¢	1.25
95C7121	2	4 lbs. 2 oz	68¢	1.35

Improved Bolt Snap

XC (white) metal finish.

Article Number	Size In.	Weight per Doz.	Per ½ Doz.	Per Dozen
95C7055	⅞	1 lb. 3 oz.	22¢	41¢
95C7056	1	1 lb. 4 oz.	23¢	43¢
95C7057	1¼	1 lb. 11 oz.	36¢	70¢
95C7058	1½	1 lb. 15 oz.	42¢	80¢

Triumph Bit Snap

Length, 2¼ inches. XC (white) Metal. Shipping weight, per dozen, 9 ounces.
95 C 7050—2 for......9¢
Per dozen......48¢

Breast Strap Roller Snap

Japanned (black) finish.

Article Number	Size In.	Wt. Each	Each	Per Dozen
95 C 7087	1½	9 oz.	20¢	$2.15
95 C 7088	1¾	10 oz.	22¢	2.35
95 C 7089	2	11 oz.	24¢	2.55

Roller Snap

Choke Strap Roller Snap. A strong, safe and durable malleable iron snap. Japanned (black) finish, with screw and roller. Brass finish tongue. Takes 1½ inch strap. Shipping weight, each, 7 ounces.
95 C 7130—Each......12¢
95 C 7131—1¾ inch. Shipping weight, 8 ounces. Each......14¢

Sliding Chain Snap

Strong and heavy, to be used in center of breast chains. Japanned (black) finish. Shipping weight, each, 10 ounces.
95 C 7083—Each......23¢

Buckle and Snap

For 1½-inch breast straps. Japanned (black) finish. Shipping weight, per pair, 1 pound.
95 C 7104—Per pair......32¢

Bright Trace Chains

Medium weight, Bright Finish Trace Chains, made from the very best material, and known as 7-8-2—meaning, 7 feet long, 8 links to the foot and number 2 wire which is ¼ inch. Shipping weight, per pair, 6 pounds.
Per pair (for one horse).
95 C 6873......$1.00
95 C 6874—Extra heavy, bright finish trace chains, made from the very best material, and known as 7-8-0—meaning 7 ft. long, 8 links to the foot and number 0 wire, which is $\frac{5}{16}$ inch. Shipping weight, per pair, 10 pounds.
Per pair (for one horse)......$1.65

Lumber Style Butt Chain

Chain is made to stand hard wear. Metal is hardened and stands the heaviest strain. Lumber style trace Butt Chains, 36 in. long, $\frac{5}{16}$ inch wire swivel and with ring at end. Shipping weight, per set of four, 9½ pounds.

95 C 6875—Per set of 4....$1.85

Bridle Rein Chain

Covert's Bridle Rein Chains, bolt snap on one end, triangular dee on the other end. XC (white) metal plated. Length, 12 inches. Shipping weight, per pair, 7 ounces.
95 C 3705—Per pair......50¢

Breast Strap Slide

Japanned (black) finish iron, to use on breast straps of team harness.

Article Number	Size In.	Weight Each	Each	Per Dozen
95 C 7147	1½	6 oz.	7¢	75¢
95 C 7148	1¾	6½ oz.	8¢	83¢
95 C 7149	2	7 oz.	9¢	90¢

Straight Concord Clips

Very useful articles for repairing the front ends or heel ends of traces. Malleable iron. Japanned (black) finish.

Article Number	Size Inches	Weight Each	Price each
95C7311	1½	5 oz.	7¢
95C7312	1¾	5 oz.	8¢
95C7313	2	6 oz.	10¢
95C7314	2¼	7 oz.	12¢

Jointed Concord Clips For Bolt Traces

The clevise which goes into the trace can be used on 1½-in., 1¾-in. or 2-in. traces. Shipping weight, each, 12 ounces.
95 C 7331—Set of 4......$1.75

Jointed Concord Clips

Attachment for bolt hame so you can clip the trace and have a joint at the hame. Sizes are for hame bolt; end that attaches to trace is standard width. Japanned (Black) finish. Made in sizes as follows:

Article Number	Width at Hame	Weight Each	Each
95C7329	2 in.	12 oz.	26¢
95C7330	2¼ in.	12½ oz.	30¢

Toggle Clip

With 6-link chain, ¼-inch wire clip, may be used on 1½ and 1¾ inch traces. Shipping weight, per set of four, 6½ pounds.
95 C 6876—Per set of 4...$1.38

Straight Trace Splicer

Malleable iron Japanned (black) finish. For mending traces of buggy, express or farm harness. Shipping weight, per dozen, 1 pound 2 ounces.
95 C 7165—Per ½ dozen......25¢
Per dozen......42¢

Joint Trace Splicer

For the rapid splicing of farm traces. Ninety-five per cent of the traces that break are broken in the buckle hole. These splicers are intended to repair such traces. Insert malleable end toward heel of trace. Ship. wt., per dozen, 1½ pounds.
95 C 7170—Each......8¢
Per dozen......90¢

Gag Runners

Malleable iron. Japanned (black) finish. To be attached to the billets on the crowns of bridles for side check reins to pass through.

Article Number	Sizes	Wt., per set of four	Price per set of four
95C7368	⅝ in.	1 lb.	15¢
95C7369	¾ in.	1 lb.	17¢

Snap Heel Chain

Made of $\frac{5}{16}$-inch wire, 4 links, with snap, about 15 inches. May be used for repair or for lengthening traces. You will find the snap a great convenience and time saver.
Ship. wt., per set of four, 5¼ pounds.
95 C 6868—Per set of 4......80¢

Swivel Heel Chain

With swivels and screw dees. May be used for repair work or for new work on team traces. Six links, swivel and screw dee, $\frac{5}{16}$-inch wire, made in three sizes.
Size, 1½ in. Weight, 5 pounds.
95 C 6861—Per set of 4....$1.05
95 C 6862—Size, 1¾ in. Weight, 5 pounds 2 ounces. Per set of 4..$1.10
95 C 6863—Size, 2 inches. Weight, 5 pounds 4 ounces. Per set of 4.$1.20

Breast Chain

Bright Breast Chain with "Ts" or toggles on each end. These chains are serviceable, convenient and low in price. Made of twist link ¼ inch iron, chain with bright, polished finish. Length, 26 inches. Shipping weight, per pair, 2 pounds 10 ounces.
95 C 6879—Per pair......85¢

Success Hame Fastener

Stronger and more easily adjusted than any hame strap. Place the heavy end into the loop of the off hame and hammer down the hook so that the fastener cannot become detached. Ship. wt., each, 12 ounces.
95 C 6856—Each......30¢

Wood Spread Roller

The iron part of roller made in two parts, which adjust so you can insert the line. With its use a line never becomes twisted, but is held in proper shape. Japanned (black) finish.
Spread Roller, without strap. Shipping weight, per pair, 3 ounces.
95 C 7134—Per pair......14¢

Screw Cockeyes

Japanned (black) finish Screw Bolt Cockeyes, best quality malleable iron.

Article Number	Size In.	Weight per Doz.	½ Doz.	Per Doz.
95C7180	1¼	2 lbs. 3 oz.	32¢	$.63
95C7181	1½	2 lbs. 8 oz.	37¢	.72
95C7182	1¾	2 lbs. 10 oz.	46¢	.90
95C7183	2	2 lbs. 12 oz.	58¢	1.14
95C7184	2¼	3 lbs. 10 oz.	75¢	1.45
95C7185	2½	3 lbs. 12 oz.	85¢	1.65

Utility Cockeyes

Made with screw bolt, and used in hame tug and clip hame; also used in trace. Japanned (black) finish.

Article Number	Size In.	Wt. per Set of 4	Set of 4
95C7190	1½	12 oz.	30¢
95C7191	1¾	14 oz.	33¢
95C7192	2	16 oz.	38¢

Detachable Cockeye

For the end of a dart hole trace; so trace can be used either on a sword end, or hook end whiffletree. Japanned (black) finish. Shipping Weight, per pair, 10 ounces.
95 C 7198—Per pair......25¢

Patented Clip Cockeye

Malleable iron, Japanned (black) 1½ inch. Made to fit any trace. Shipping weight, per set, 1½ pounds.
95 C 7197—Per set of 4......33¢

Terrets, Malleable Iron

Heavy Band Terrets, for pads on team harness, 1¾ inches. Japanned (black) finish. Shipping weight, each, 4⅔ ounces.
95 C 7340—Each..17¢

Heavy Band Terrets, for pads on team harness, 1¾ inches, XC (white) metal plate. Shipping weight, 4⅔ ounces.
95 C 7341—Each......17¢

Terrets, for buggy harness wire pattern, 1½ inches, finely nickel-plated. Shipping weight, each, 2½ ounces.
95 C 7343—Each......18¢

Terrets, for buggy harness, wire pattern, 1½ inch solid brass, finely polished. Ship. wt., each, 2½ ounces.
95 C 7344—Each......18¢

Terrets, for buggy harness, imitation rubber, wire pattern, 1½ inches. Shipping weight, each, 3 ounces.
95 C 7345—Each......18¢

Drop Terret

Made to rivet on back, bands, hinged. Japanned (black) finish. Shipping weight, 2⅓ ounces.
95 C 7335—Each .10¢

Repair Dees

With screw bolts for repairing the ends of breeching or replacing worn out rings in the ends of martingales. Japanned (black) finish.

Article Number	Size In.	Weight per Doz.	Per ½ Doz.	Per Dozen
95C7139	1¼	1 lb. 8 oz.	33¢	64¢
95C7140	1½	1 lb. 14 oz.	35¢	66¢
95C7141	1¾	2 lb.	42¢	80¢
95C7142	2	2 lb. 4 oz.	50¢	95¢

Pad Screws

Wrought iron, for pads, or back bands of team harness. Japanned (black) finish. Shipping weight, per dozen 8 ounces.
95 C 7202—Per ½ dozen......18¢
Per dozen......33¢

Flat Link Halter Chains

Bright finish, steel chain, weldless steel links, like safety chain, **very strong.**

Give Article Number	95C5051	95C5052
Length, feet	4½	6
Size......	00	00
Links......	1¾x½	1¾x½
Weight......	14 oz.	15 oz.
Each......	45¢	55¢

Round Wire Halter Chains

Uniformly made of hard steel wire. A strong, safe chain at a low price.

Give Article Number	95C5045 Medium Wire	95C5048 Medium Wire
Length, feet.	4½	6
Size......	00	00
Gauge......	10	10
Weight......	14 oz.	20 oz.
Each......	25¢	30¢

Adjustable Breast Chain

$1.55

Superior quality refined malleable iron. Imitation rubber finish and brass tongues on snaps. Length, including snaps, 32 inches. Shipping weight, per pair, 4½ pounds.
Japanned Finish
95 C 6888—
Per pair......$1.55

Horse Tail Clasp

A simple and practical device for holding the hair of the horse's tail. It is of sheet brass and corrugated rubber. Width, about 2 inches. May be made large or small. Weight, each 2 ounces.
95 C 6333—Each......30¢

Harness Buckle with Roller

Japanned (black) finish

Article Number	Size In.	Weight per Dozen	Per Dozen
95 C 7219	¾	5½ oz	12¢
95 C 7220	⅞	7 oz	14¢
95 C 7221	1	8 oz	15¢
95 C 7222	1¼	11½ oz	20¢
95 C 7223	1½	15 oz	25¢
95 C 7224	1¾	1 lb. 4 oz.	30¢
95 C 7225	2	1 lb. 9 oz	3¢

Center Bar Buckle with Roller

Japanned (black) finish.

Article Number	Size In.	Weight per Dozen	Per Dozen
95 C 7253	⅝	4 oz.	14¢
95 C 7254	¾	6½ oz.	16¢
95 C 7255	⅞	11 oz.	20¢
95 C 7256	1	13 oz.	24¢
95 C 7257	1¼	1 lb. 2 oz	34¢
95 C 7258	1½	1 lb. 4 oz.	43¢

Trace Buckles

Double Loop, Champion Trace Buckles. Japanned (black) finish.

Article Number	Size In.	Weight per Doz.	Each	Dozen
95 C 7232	1½	4½ lbs.	10¢	$1.02
95 C 7233	1¾	5½ lbs.	11¢	1.18

Trace Buckles

Without loops. For slip tug trace. Japanned (black) finish.

Article Number	Wt. Lbs.	Size In.	Each	Per Dozen
95 C 7238	3	1¼	8¢	$ .80
95 C 7239	3½	1½	9¢	.95
95 C 7240	4½	1¾	10¢	1.05

Trace Carriers

To be sewed in back straps of team harness to hold up the traces. Japanned (black) finish. Weight, each, 2½ ounces.
95 C 7160—Each......9¢

Flexible Buckle Shield

Stamped out of sheet brass and with heart design in center.

Nickel-plated

Article Number	Size In.	Weight per Doz.	½ Doz.	Dozen
95 C 7387	⅞	4½ oz.	28¢	53¢
95 C 7388	1	5 oz.	34¢	66¢
95 C 7389	1⅛	8 oz.	39¢	75¢
95 C 7390	1¼	9 oz.	44¢	86¢

Solid Brass

Article Number	Size In.	Weight per Doz.	½ Doz.	Dozen
95 C 7392	⅞	4½ oz.	28¢	53¢
95 C 7393	1	5 oz.	34¢	66¢
95 C 7394	1⅛	8 oz.	39¢	75¢
95 C 7395	1¼	9 oz.	44¢	86¢

Thimbles and Eyes

For making cattle ties, horse ties or rope halters. XC (white) metal plated.

Article Number	Weight per Dozen	Size	Per ½ Doz.	Per Doz.
95 C 7154	12½ oz.	½ in.	32¢	58¢

Saddle Fork

Best malleable Steel Fork with oval hardwood caps, for repairing broken or damaged saddle horns. Shipping weight, each 12 ounces.
95 C 3460—Each...85¢

Lariat Swivel

A fine malleable iron swivel, polished finish. ⅝-inch eye. Length, 3 inches. Shipping weight, each 3 ounces.
95 C 3370—Each......8¢

Cincha Buckles

Tackaberry's patent Cincha Buckles, XC (white metal) plated, for use on heavy stock saddles, Latigo loop, 2 inches with catch, 1½ inches. Ship. wt, each, 4 ounces.
95 C 3393—Each......27¢

Lariat Rings

Solid Brass Hondas or Lariat Rings. Egg shape; length inside, 1¼ inches; extreme length, 2¼ inches. Takes rope up to $\frac{7}{16}$ inch diameter. Shipping weight, each, 2 ounces.
95 C 3399—Each......14¢

Drop Check Hooks

To rivet on back bands, made of malleable iron, with hinge. Japanned (black) finish. Shipping weight, each, 3 oz.
95 C 7357—Each......13¢

Check Hooks

Loop end bolt hooks for pads on team harness. Steel, Japanned (black) finished. Shipping weight, each, 2¾ ounces.
95 C 7362—Each......11¢

Dunlap Safety Check Hook

For single or double buggy harness. Weight, each, 1½ ounces.
95 C 7374 — Nickel-plated.
Each......14¢
95 C 7375—Imitation rubber.
Each......14¢
95 C 7376—Brass.
Each......14¢

A Few Simple Measurements Enable Us to Fill Promptly Your Orders for Clothing

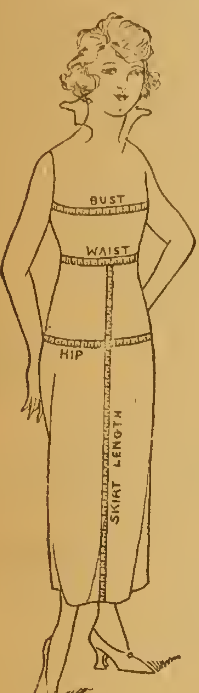
These simple measurements are easy to take and assure you of perfect fitting garments. Be sure to have some one take your measurements for you; do not endeavor to measure yourself. Before having your measurements taken, please read carefully the following suggestions: (1) Do not have the tape measure drawn too tightly, just enough to fit comfortably; (2) Be sure it does not slip out of position while measurement is being taken; (3) Be sure to send us correct figures plainly written.

Our garments are made in daylight sanitary workshops where the most careful attention is given to designing, cutting, and workmanship. We overlook no point in style, quality, or finishing that will add to your satisfaction.

We have in our extensive stock, garments that will fit you perfectly. Any information you can give us in addition to the measurements asked for, will help our experts in selecting the proper size for you.

Send us these measurements when ordering women's, misses' and children's clothing

Study the illustrations below and note position of tape measure for measurements before you have them taken. Be sure an accurate tape measure is used. Read carefully the catalogue description of the garment you are ordering to see that they come in the size and color you want.



No. 1

No. 2

Bust Measure: Have the tape measure placed around the fullest part of bust, well up under the arms, over your shirtwaist or dress. Do not take this measurement too tight and do not allow tape measure to slip down in back. Make no allowance whatever.

Waist Measure: Have the tape measure placed around the waist at smallest part of waist over your skirt.

Hip Measure: Have the tape measure placed around the hips, about 7 inches below your natural waistline over your skirt. Do not allow tape measure to slip up or down.

Front Length of Skirt: Have this measurement taken by placing tape measure at natural waist line in front and continue down to whatever length skirt is desired.

Measurements to Give When Ordering

Back Lace Corsets: Take waist measure tightly over corset and subtract 2 inches to allow for the lacing.

Front Lace Corsets and Topless Corsets: Take waist measure tightly over corset and subtract 1 inch.

Blouses: State bust measure.

Girls' and Children's Coats: State age and back length from neck to bottom of coat.

Misses' and Juniors' Coats: Order by age only. See description.

Women's Coats: State bust measure.

Children's Dresses: State age, and give length desired.

Misses' and Juniors' Dresses: Order by age only, corresponding to 32 to 38 bust. See description.

Women's Dresses: State bust, waist, hip measures and skirt length, also your height.

House Dresses, Kimonos, Aprons: State bust measure.

Children's Hats: State age, and whether small, average or large for age.

Misses' Hats: State whether average or large size is desired.

Women's Hats: We carry two sizes, average and large. Be sure to state which is preferred.

Women's Sweaters: Add three (3) inches to your bust measure, taken over your dress. Even number sizes only, 34 to 46.

Underwear, Knitted and Muslin: For Union Suits, Vests, and Shirts, state bust measure; Drawers, waist measure.

Misses' and Women's Skirts: State waist and hip measure, also front length wanted.

Raincoats: State bust measure.

Abdominal Supporters: State measure around largest part of abdomen.

Shoulder Braces: State chest measure.

Stockings (Elastic): See illustration on Page 385.

Suits, Women's and Misses': Give actual bust, waist and hip measures, also front length of skirt.

Maternity Garments: See descriptions of garments.

Petticoats: Give front length desired and hip measure.

Trusses: Unless you have already worn a truss and know your exact measurements, have yourself measured by your physician. See Page 384.

Glove Measurements—Men's, Women's

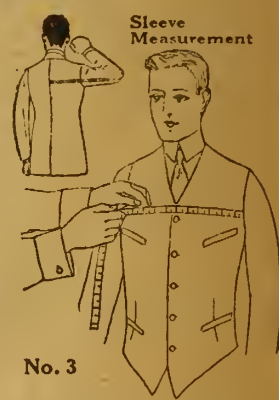
Draw your tape measure around over the knuckles (as shown in picture to the left) not too tight, and not including the thumb. To this measurement add ¼ inch for dress gloves and ½ inch for working gloves, which will be your correct size. Women's unlined Kid glove sizes: 5½, 5¾, 6, 6¼, 6½, 6¾, 7, 7¼, 7½, 7¾, 8. Women's Silk Fabric and lined glove sizes: 5½, 6, 6½, 7, 7½, 8, 8½. Men's Dress glove sizes: 7, 7½, 8, 8½, 9, 9½, 10, 10½. Men's Work Glove sizes: 7½, 8, 8½, 9, 9½, 10, 10½, 11. Children's gloves: Order by age. Be sure to state if child is large or small for age.

Children's Bonnets

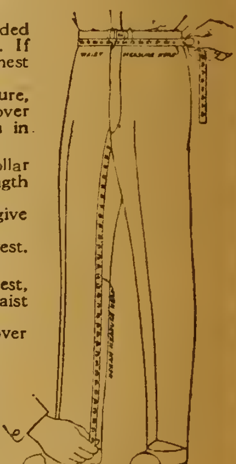
Measure head as illustrated by placing tape measure around the head and face, beginning at the arrow point shown in picture, which is on the neck just below the ear and continues around face to point on opposite side. This shows size of bonnet to order.

Send us these measurements when ordering men's, young men's and boys' clothing

Only a few simple measurements are necessary to assure you of perfect fitting suit, coat or heavy outer garments. Be sure to read carefully catalogue descriptions of the garments you are ordering to determine if they come in color and size that you want to order.



No. 3


No. 4

Chest Measure: Have the tape measure placed all around the body over chest close up under the arm and over shoulder blades in the back. Have measurements taken over vest as illustrated in Picture No. 3. When ordering men's suits, **give height and weight,** also give outside sleeve measure.

Sleeve Measurement: Place hand and arm in position as illustrated in the top picture. Have tape measure placed on center seam in back and continue around elbow to wrist, for the length desired.

Waist Measurement: Have the tape measure placed all around your waist just above hips. See first measurement illustrated in Picture No. 4.

Inseam Measurement: Have tape measure placed close up in crotch and continue down the leg to the desired length shown in Picture No. 4. The above measurements should be taken over trousers and tape measure should not be drawn too tightly. When ordering trousers or overalls, state waist and inseam, **also height and weight.**

Outing Coats: Draw tape measure around chest, close up under the arms, over the shirt. If chest measures 40 inches, order a size 40 coat, provided nothing more than an ordinary shirt is to be worn underneath. If additional clothing is to be worn, order a size 42 coat for a chest measurement of 40 inches.

Men's Sweaters: Add 2 or 3 inches to your chest measure, taken close up under the arms, over shirt, or give one size larger than coat size. Sweater sizes run in even numbers, 34 to 46.

Shirts: Neckband of shirt should be ½ size smaller than collar size. Or give actual neck measure. Also state length of sleeve desired

Overalls: State waist measure and inseam length and give height and weight.

Raincoats: State chest measure (Picture No. 3) taken over vest. Also give height and weight.

Vest: Draw the tape measure around the chest, over the vest, close up under the arms (Picture No. 3). Also give waist measure.

Overcoats: State chest measure (Picture No. 3) taken over vest. Also give height and weight.

Men's Rubber Raincoats, Oiled Slicker Clothing and Working Clothing: Give chest measure (Picture No. 3), also height and weight.

Men's Overall Jackets: Give chest measure (Picture No. 3).

Men's Underwear: For Union Suits and Shirts, state chest measure; Drawers, waist measure.

Youths' or High School Clothing: When ordering long trouser suits give same information as requested for men's and young men's suits.

Hat Measurements

Measure as illustrated and compare the number of inches your head measures with this scale of hat sizes and send us the hat size you wear.

Children's Hat Size, 6⅛ to 6¾.
Boys' Hat Size, 6½ to 7.
Men's Hat Size, 6¾ to 7¾.

Head Measure Inches	Corresponding Hat Size	Head Measure Inches	Corresponding Hat Size
18⅝	6	21⅝	7
19	6⅛	22	7⅛
19⅜	6¼	22⅜	7¼
19¾	6⅜	22¾	7⅜
20⅛	6½	23⅛	7½
20½	6⅝	23½	7⅝
20⅞	6¾	23⅞	7¾
21¼	6⅞		

Boys' Clothing: Place tape measure all around chest, over blouse, close up under the arms and over shoulder blades in back. Then compare with size scale and you will know what age suit will fit your boy. If you want perfect fitting clothing you must state, when ordering, age and chest measure, also height and weight.

Size Scale of Boys' Suits and Overcoats

Ages, years	5	6	7	8	9
Chest inches	24	24¾	25½	26¼	27
Ages, years	10	11	12	13	14
Chest, inches	27¾	28½	29¼	30	30¾
Ages, years	....	15	16	17	18
Chest, inches		31½	32¼	33	34

Measurements for Shoes:

See our special measurement chart for shoes, which is on Page 285 in our shoe section. It is a self-measurement chart which enables us to fit your foot correctly.

How to measure for Rings, Page 344.
How to measure for Thimbles, Page 348.
How to measure for Bed Springs, 471.
How to measure for Window Shades, 478.
How to order Carpeting, Page 495.
How to order Linoleum, Page 499.
How to find amount of Paint necessary for a house, Page 627.

You Must Be Satisfied

This order is accepted by us with the understanding that you may return any merchandise that does not please you and we will exchange it for other goods or refund your money, whichever you prefer.

Order Blank

Montgomery Ward & Co.

Satisfaction Guaranteed or Your Money Back

Chicago, Illinois

All Members of One Family Should Order Under One Name

What Else Do You Need?

You can save more money by including in this order all the items you are likely to need in the near future. Consult the Index shown on the Blue Pages in the center of this Catalogue.

The Oldest Mail Order House is To-day the Most Progressive

For fifty years we have been pleasing our customers, and we know we can please you.

Mr., Mrs. or Miss | First Name | Middle Initial | Last Name

Street and No. | R. F. D. | Box No.

Post Office | State

Please Give Shipping Point with State and County, if Different from Post Office

Shipping Point | State | County

Please Do Not Write in This Space

How to Send Money

Send Money by Post Office or Express Money Order, Bank Draft or Personal Check. If it is impossible for you to obtain any of these, send currency, wrapped in heavy paper, by **Registered** letter.

How Shall We Ship?

Mark X in Square Below

PARCEL POST ☐

With the amount you enclose, please be sure to send enough for Parcel Post charges.

EXPRESS ☐

FREIGHT ☐

What railroad do you prefer? If no preference, we will ship the best way.

RAILROAD CO.

	Number in Catalogue (Make Plain Figures)	Quantity	Name of Each Article Wanted	Sizes, Colors, Finishes, etc.	Price Each or per Doz.	Total	Postage	

Have You Stated Size and Color ?

Amount Enclosed For Goods		
Additional Amount Enclosed for Parcel Post or Prepaid Express or Freight Charges		
Total Amount Enclosed		

Please State Total Amount Enclosed

Čechoslovácky

Jest možno Vám psáti česky neb slovácky jestli jest to pro Vás pohodlné. Vaše psaní a objednávky dostanou tu stejnou pozornost jako by byly psány anglicky.

Prohlédněte si dobře obrázek a popis v katalogu, od každé věci co si objednáte. Udejte číslo, barvu a velikost a pošlete dosti peněz i na poštovné, jestli objednávka má být poslaná po poště.

Deutsch

Im Falle es leichter ist fuer Sie, koennen Sie uns auf deutsch schreiben. Ihre Bestellungen werden ebenso sorgfaeltig ausgefuehrt wie die auf Englisch abgefassten. Wir bitten, immer genau zu achten auf die Abbildung und Beschreibung von jedem Gegenstand den Sie bestellen wollen. Geben Sie die Nummer, Groesse und Farbe an und legen Sie Ihrer Bestellung genug Geld bei, sowie auch den Betrag der Frankierungs kosten, falls die Bestellung mit der Post gehen soll.

Español

Usted puede escribiros en Español si le es más conveniente. Contestaremos sus cartas,y sus órdenes recibirán la misma cuidadosa atención que recibirian si fueran escritas en Inglés.

Suplicamos a Ud. estudiar cuidadosamente las ilustraciones y descripciónes en nuestro catálogo, de cada artículo que Ud. ordene. Sirvase mencionar el número del artículo, tamaño y color en su órden, y envienos dinero suficiente para cubrir el costo total de las mercaderias, incluyendo franqueo, si su órden es para enviarse por correo.

Français

Vous êtes libre de nous écrire en français, si vous trouvez cela plus facile. Vos commandes recevront la même soigneuse attention que celles qui sont ecrites en anglais.

Veuillez étudier dans notre catalogue l'iliustration et la description de chaque article que vous désirez commander. Designez l'article par son nom, son numéro et son prix et indiquez la couleur et vos mesures, si cela est néccssaire. Votro commande doit être accompagnée d'une somme suffisante pour couvrir le prix de la marchandise et aussi l'affranchissement, si la commande doit être expédiée par la poste.

Hollandsch

U kan ons in de Hollandsche taal schrijven, indien dit gemakkelijker voor u is. Alle bestellingen worden zorgvuldig uitgevoerd, onverschillig of deze in de Engelsche of in een andere taal geschreven ziju.

Ieder artikel in onzen catalogus is duidelijk beschreven en geillustreerd. Geef nummer, maat en kleur op den bestelbrief aan en zend ons het totaal bedrag der bestelling, frankeeringskosten inbegrepen, indien de bestelling per post moet worden gezonden.

Italiano

Ci potrete scrivere in Italiano se questa vi riesce piu' facile. Risponderemo le vostre lettere e i vostri ordini riceveranno la medessima attenzione come se fossero scritti in inglese.

Vi preghiamo di studiare attentivamente le illustrazione e descrizione nel catalogo di ogni articolo che ordinate. Menzionate il numero dell'articolo, grandezza e colore nel vostr'-ordine, e mandateci sufficiente moneta per coprire l'ammontare della merce incluso le spese postale, se il vostr'ordine deve essere spedito in questa maniera.

Norsk

De kan skrive til os paa Norsk, om det falder lettere for Dem. Vi vil svare Deres breve og bestillinger med den samme nøiagtighed, som om de var skrevne paa Engelsk.

Venligst se nøie paa illustrationen og læs forklaringen i katalogen af hver artikel, De ordrer. Opgiv artikel nummer, størrelse og kulør naar bestillinger sendes, og indlæg nok penge til at betale total beløbet af varerne, iberegnet porto, om Deres bestillinger skal sendes pr. post.

Polskie

Można do nas pisywać po polsku. Listy i zamówienia odpowiemy z najdokładniejszą starannością, taksamo jak otrzymuja zamówienia pisane w języku angielskim.

Uprasza się aby zastanowić się nad każdą ilustracyą i opisem podanem w katalogu. Trzeba podać dokładnie numer, wielkość i kolor rzeczy zamawianej, sumę pieniężną za rzeczy zamawiane właczając także koszta za przesyłkę trzeba nadesłać wraz z zamówieniem.

Portuguez

Podeis escrever-nos na lingua portugueza se os convir mais fazer isso. Daremos ás vossas encommendas a mesma cuidadosa attenção que ellas receberiam se as escrevesseis em inglez. E'importante que estudeis attentamente no nosso catalogo a illustração e descripção dada n'elle de cada artigo que desejeis encommendar, e que ao tempo de mandar-nos a encommenda nos deis o numero que o artigo traz no catalogo, e tambem o tamanho e a côr. Tamben é preciso enviar-nos bastante dinheiro para cobrir o importe total das mercadorias, incluindo o porte, se desejais que enviemos as mercadorias pelo correio.

По Русски

Вы можете писать намъ по-русски если для Васъ выгодно. Ваши заказы будутъ вернѣчены съ такимъ же вниманіемъ если бы были писаны по англійски. Изучите картину и описаніе въ каталогѣ каждой вѣщи которую Вы закажете. Въ Вашемъ заказѣ укажите предметъ, нумеръ, мѣру и цвѣтъ, и пришлите достаточно денегъ для покрытія стоймости товаровъ и почтовыхъ расходовъ, если Вашъ заказъ будетъ присланъ по почтѣ.

Suomea

Te voitte kirjoittaa meille suomeksi jos se on teille käytännölliscmpi, teidän tilauksenne tulee saamaan saman huolellisen huomion kuin jos ne olisivat Englannin kielella kirjoitettu.

Tarkastakaa huolellisesti kuva ja selvitys hinta luettelossa jokaisesta tavarasta mitä tilaatte Mainitkaa tavaran numero, koko, ja väri, tilauksessanne, ja lähettakää meille tarpeellinen summa rahaa peittämään tavarain hinta, postimaksu siihen luettuna jos tavaranne on lähetettävä postin kautta.

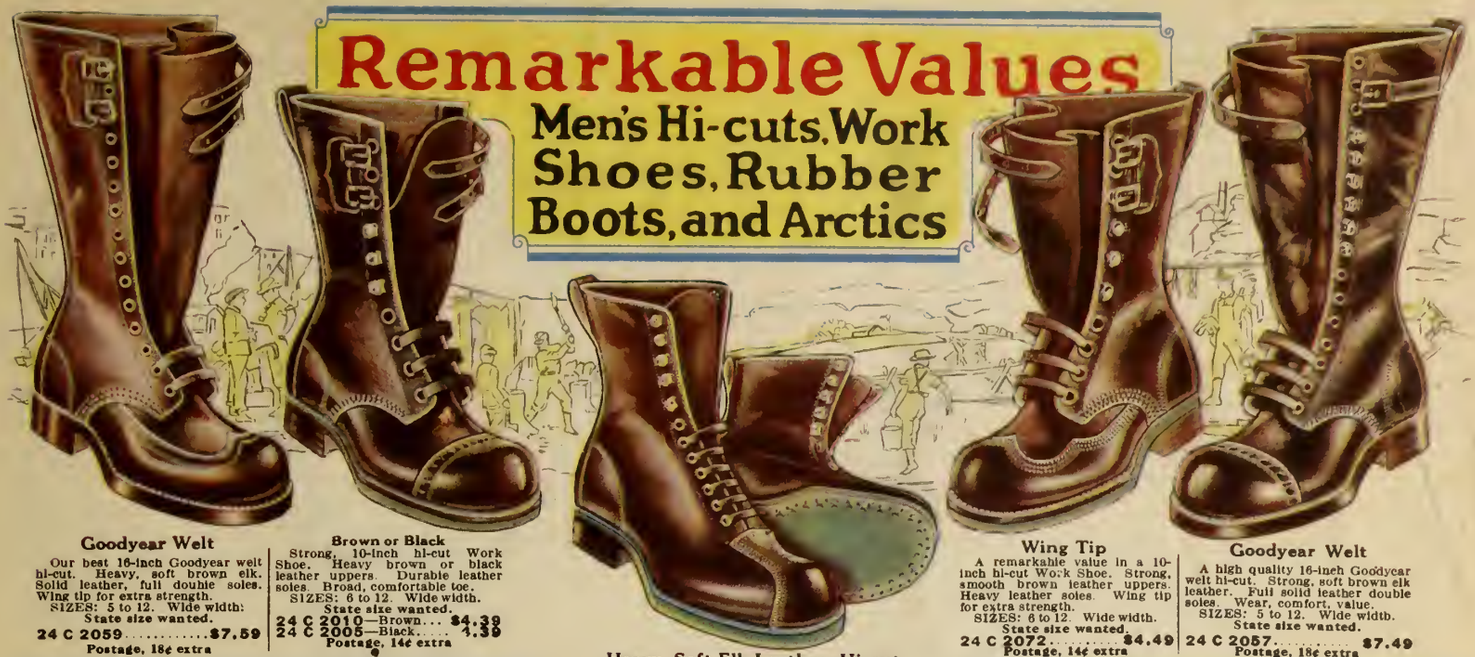
Svenska

Ni kan skrifva på Svenska språket om Ni föredragar det, vi skola besvara edert bref, och eder rekvisition skall få samma nogranna uppmärksamhet som den skulle ha fått om den varit skrifven på Engelska.

Betrakta noga bilden och beskrifningen i Katalogen, på hvarje artikel ni rekvirerar. Gif artikelns nummer, storlek och färg. Sänd oss tillräckligt pengar för såväl priset på varan som ochsä postpängar om en rekvisition skall sändas pr. post.

Remarkable Values

Men's Hi-cuts, Work Shoes, Rubber Boots, and Arctics



Goodyear Welt

Our best 16-inch Goodyear welt hi-cut. Heavy, soft brown elk. Solid leather, full double soles. Wing tip for extra strength.
SIZES: 5 to 12. Wide width.
State size wanted.
24 C 2059.....**$7.59**
Postage, 18¢ extra

Brown or Black

Strong, 10-inch hi-cut Work Shoe. Heavy brown or black leather uppers. Durable leather soles. Broad, comfortable toe.
SIZES: 6 to 12. Wide width.
State size wanted.
24 C 2010—Brown... **$4.39**
24 C 2005—Black..... **4.39**
Postage, 14¢ extra

Heavy, Soft Elk Leather, Hi-cut

A strong, comfortable 8-inch hi-cut. Popular with outdoor workers. Made from finest heavy, soft brown elk leather. Strong chrome leather soles, nailed and stitched. Smooth leather insole. Solid leather heel. A big value at our price.
SIZES: 6 to 12. Wide width.
State size wanted.
24 C 1849.....**$3.29**
Postage, 12¢ extra

Wing Tip

A remarkable value in a 10-inch hi-cut Work Shoe. Strong, smooth brown leather uppers. Heavy leather soles. Wing tip for extra strength.
SIZES: 6 to 12. Wide width.
State size wanted.
24 C 2072.....**$4.49**
Postage, 14¢ extra

Goodyear Welt

A high quality 16-inch Goodyear welt hi-cut. Strong, soft brown elk leather. Full solid leather double soles. Wear, comfort, value.
SIZES: 5 to 12. Wide width.
State size wanted.
24 C 2057.....**$7.49**
Postage, 18¢ extra

Heavy Outdoor Shoes

24C1675

Heavy black Box veal leather blucher. Strong leather soles. Goodyear welt. Broad, roomy toe. White drill lined. SIZES: 6 to 12 Wide width.
State size wanted.
24 C 1840..**$4.49**
Postage, 12¢ extra

Our Policemen's Special

24C1840

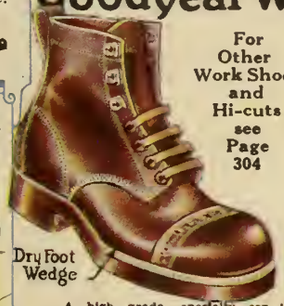
Best quality semi-dress 7-inch winter hi-cut. Strong, soft brown veal leather uppers. Heavy leather soles. Goodyear welt sewed.
SIZES: 6 to 11. Widths D, E, EE.
State size wanted.
24 C 1675.....**$4.98**
Postage, 12¢ extra

Women's Hiking Boot

Soft, Brown Elk Leather
$5.49
Goodyear Welt

Women's durable High Top Shoes for hiking, hunting or general outdoor wear. They are comfortable and will retain a neat, dressy appearance. Strong oak leather soles. Goodyear welt sewed. Unlined, soft elk leather uppers. Dressy, medium toe.
SIZES: 3 to 8. Widths D, E and EE.
State size wanted.
24 C 1354.....**$5.49**
Postage, 12¢ extra

Goodyear Welt - For Men



For Other Work Shoes and Hi-cuts see Page 304

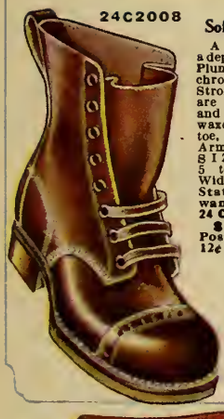
Dry Foot Wedge

A high grade, specially constructed Work Shoe. Strong brown chrome elk leather. Heavy double leather soles. Goodyear welt. Dry foot leather wedge.
SIZES: 6 to 12. Wide width.
State size wanted.
24 C 1829.....**$4.49**
Postage, 12¢ extra

Two Rows of Welt Stitching

Men's solid leather Service Shoe with two full heavy leather soles, double waxed thread stitched Goodyear welt. Brown chrome veal leather uppers.
SIZES: 6 to 12. Wide width.
State size wanted.
24 C 1828.....**$4.98**
Postage, 12¢ extra

24C2008



Soft Toe, Army Last

A remarkable value in a dependable Work Shoe. Plump weight, brown chrome veal leather. Strong leather soles are metallic fastened and stitched with waxed thread. Soft toe. Munson Army last.
SIZES: 5 to 12
Wide width.
State size wanted.
24 C 1651
$2.79
Postage, 12¢ extra

7-Inch Blucher Work Shoe

A strong, comfortable 7-inch hi-cut Work Shoe at a money saving price. Durable dark brown smooth leather uppers. Heavy leather soles, nailed and stitched. An excellent hi-cut for hard use.
SIZES: 6 to 12. Wide width. No half sizes.
State size wanted.
24 C 2008.....**$3.79**
Postage, 12¢ extra

For Men and Boys

Strong, smooth brown leather uppers. Heavy chrome leather soles securely fastened. Remarkable values at our prices.
State size wanted.
24 C 1838—
6 to 12..... **$1.89**
24 C 2247—
1 to 5½..... **$1.79**
24 C 2248—
9½ to 13½
..... **$1.49**
Postage, Men's, 12¢ extra; Boys', 10¢ extra

24C1850

Men's 8-Inch "Outing" Work Shoe

A popular hi-cut because of its durability and its economical price. Strong, soft brown ooze leather uppers. Heavy chrome leather soles. Roomy and comfortable.
SIZES: 6 to 12. Wide width. No half sizes.
State size wanted.
24 C 1850.....**$2.79**
Postage, 12¢ extra

State size wanted

Men's and Boys' Benefactor quality Red Rubber Boots.

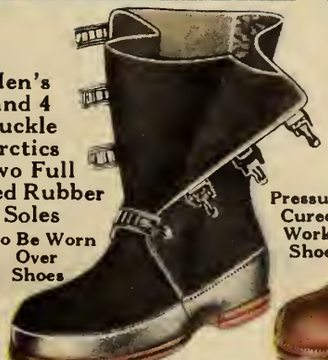
Patent process presses parts into one piece. No half sizes.
State size.
26 C 4312—Mens Red Hip Boot, Sizes, 5 to 13 **$5.98**
26 C 4311—Men's Red Short Boot, Sizes 5 to 13 **$3.98**
26 C 4379—Boys' Red Short Boot, Sizes, 1 to 6 **$3.25**
Postage: Hip boot, 18¢ extra; short boot, 14¢ extra

Full Snow Excluder

Two full red rubber soles. Heavy cashmerette top. One buckle, snow excluder.
SIZES: 6 to 13. No half sizes.
State size wanted.
26 C 4482.....**$2.45**
Postage, 12¢ extra

Men's 1 and 4 Buckle Arctics Two Full Red Rubber Soles

To Be Worn Over Shoes



Lined Cashmerette Tops

A heavy weight 4-buckle Arctic. Twe red rubber soles. Warm.
SIZES: 6 to 13. No half sizes.
State size wanted.
26 C 4471.....**$3.49**
Postage, 14¢ extra

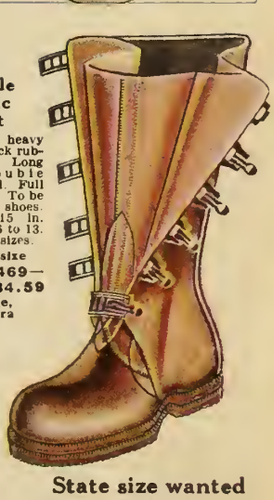
Pressure Cured Work Shoe→

To Be Worn Over Socks

A high grade all red rubber Work Shoe for men. Benefactor patent pressure process.
SIZES: 6 to 13. No half sizes.
State size wanted.
26 C 4466.....**$3.59**
Postage, 14¢ extra

Six Buckle Arctic Boot

One-piece heavy red fiber duck rubber uppers. Long wearing double sole and heel. Full fleece lined. To be worn over shoes.
Height, 15 in.
SIZES: 6 to 13.
No half sizes.
State size
26 C 4469—
.....**$4.59**
Postage, 18¢ extra



State size wanted

These are Typical of the Hundreds of Big Values in Home Furnishings to be Found in this Book

All are listed on the Blue Pages 323 to 333

$67.75

Beautiful Blue Enameled Range

THIS beautiful Blue Porcelain Enameled Range—the Commodore Windsor—is a splendid value, yet it is fully representative of the many extraordinary stove bargains we are offering our customers this year. Never before have we shown such values in ranges and heaters as are shown on Pages 500 to 511 of this catalogue.

The Commodore Windsor is a cast iron range of medium size, covered with turquoise blue porcelain enamel, baked on in such a way that it becomes practically a part of the metal itself. Splasher back and door panels are white enamel. While it is not our biggest range, it easily meets all ordinary cooking needs.

Body. High grade cast iron, coated with blue porcelain enamel. Takes 7-inch stovepipe.

Cooking Top. Six holes, three 8-inch regular lids, two fuel saving cyclonic lids, one sectional lid. Top is highly polished, turns gunmetal blue when heated; does not require blacking.

Fire Box. Has duplex grate; burns wood or coal. Size for coal, 16 by 7¾ by 5 inches. Takes 17½-inch wood, with end linings removed. For water front, add $5.50.

Oven. Size, 18 by 16½ by 12 inches. Accurate heat indicator in enameled door.

High Closet. Convenient and roomy. Drop doors are flush with frame; invisible hinges No bolt heads show.

Reservoir. Made by hand of best grade of pure copper. Holds 15 quarts. Heats by contact.

268 C 537—Range with reservoir. Shipping weight, 450 pounds.
Cash Price **$67.75**
Easy Payment Price **73.75**

268 C 536—Range without reservoir. Shipping weight, 410 pounds.
Cash Price **$62.75**
Easy Payment Price **68.75**

Easy Payment Terms: $5.00 with your order and $5.00 per month. See Page 504 for Time Payment Order Blank.

Shipped from Factory in Hannibal, Mo.

Solid Oak Kitchen Cabinet

A SPLENDID Solid Oak Kitchen Cabinet of late design, which will save you much time and many steps and relieve you of kitchen drudgery. The low price is typical of the big kitchen cabinet values offered on Pages 460 and 461.

These Features Save Your Steps

Upper Section. Tilting flour bin of thirty-five pounds capacity, fitted with sifter, Sugar jar on swinging bracket, five spice jars on a wire rack, and tea and coffee jars, all of which have aluminum covers and are included in the price. Doors of large cupboard and flour bin have frosted art glass panels, with decorative clear glass stripes. Roomy open space under cupboard and flour bin.

Base Section. Extra large cupboard for pots and pans, and strong removable wire shelf. Wire pan rack on the door. Three dustproof drawers, one of which is a cake drawer with sliding metal lid. Removable cutting board. Food chopper bracket. Table top may be pulled out to provide large working surface. Choice of white porcelain enamel or metal table top.

Sturdily built of seasoned Solid Oak and finished a beautiful Golden. Entire height of cabinet, 68 inches. Height of table top from floor, with casters, 31 inches. Size of table top, closed, 40 by 25 inches; extended, 40 by 32 inches. Groceries in cupboard, coffee grinder, food chopper and pans in lower section are illustrated only to show arrangement of cabinet, and are not included in the price. Shipping weight, about 190 pounds.

266 C 4108—Metal Table Top **$19.95**
266 C 4109—Porcelain Table Top **23.95**

Shipped from Factory in Indiana

$19.95 With Metal Table Top

A Big Economy Item

79¢ A Yard

6 Feet Wide

Long Wearing, Attractive Ward-o-leum

Made with genuine felt base and sanitary surface not affected by liquids or grease. Water reaching the under side does not hurt it. Easily cleaned with damp mop. Will give long wear and look well.

COLOR — Light green and cream with blue figures. Six feet wide Shipping weight, per running yard, 6½ pounds.

172 C 3754—Per Running Yard ..... **79¢**

Freight Rates Reduced See Pages 320-321

Montgomery Ward & Co.

Satisfaction Guaranteed or Your Money Back

Chicago

Complete Index See Pages 323-333